

VoIP Phone Web User Manual

V2.1

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Part I:

Web Configuration with VoIP Gateway Web

This part tells how to access and navigate the web configurator and perform initial configuration. It also describes the Getting Started web configuration when you use the VoIP Gateway.

1. Instruction of the Web Environment

1.1 Pre-settings

1.1.1 Network settings

Network Mode: Default NAT Mode

WAN Port: DHCP Client Mode

LAN Port: DHCP Server, IP Address: 192.168.123.1

1.1.2 Web Page

VoIP Web Login page, <http://192.168.123.1:9999>

➤ Login Account:

- Administrator's Right: Login Account: root, Password: test
- System Right: Login Account: system, Password: test
- Normal Right: Login Account: user, Password: test

1.2 Connect VoIP

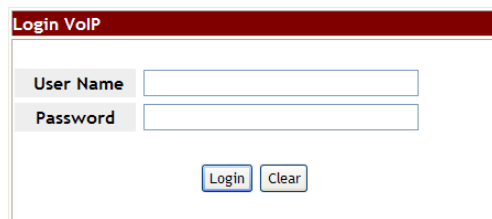
Connect PC network line to LAN port, and set PC to auto receive IP mode (DHCP); default the IP address as of 192.168.123.150.

1.3 Login VoIP Web Page

1.3.1 Functions

Provide login system management page.

1.3.2 Instruction



Suggested that uses IE7,8 , Firefox, Google the Chrome browser.

Username	Input user's name, can be numeral or letters.
Password	Input password, can be numeral or letters.
Login [Button]	Login the system
Clear [Button]	Clear all information.

1.4 VoIP Setting Page

1.4.1 Functions

Provides Information, Phone Book, Phone, Network, NAT, SIP, Management, Save & Reboot, Logout ◦

1.4.2 Instruction



System Information

WAN Port			
Link Status:	UP	Type:	DHCP Client
IP Address:	192.168.50.10	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:09:f3:77:8e:38

LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:09:f3:77:8e:38

System Information			
Firmware Version:	1012090	Update Date:	2010-12-16
DSP Version	LE-1007290		
System Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Network Link Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Current Time:	2010-12-16 18:37		

Register Information			
Phone 1			
Realm 1 Status:	Not Registered	Number:	
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

Model	Shows device type.
Information	Provides statuses of the System.
Phone	Provides [Phone Book, Speed Dial【1】, Dial Plan, Call Service, General, volume] functions.
Network	Provides [WAN, DDNS, VLAN, VPN(PPTP/L2TP), SNTP] functions.
SIP Setting	Provides Service Domain, Port Settings, Code Settings, Codec ID Settings, DTMF Settings, RPort Settings, Other Settings
NAT	Provides [LAN, DMZ & Mac Clone, Virtual Server] functions.
SIP	Provides [Service, Code, Advanced, STUN (STUN & Fource Setting)] functions.
Management	Provides [Status Log, Auto Config, Auto Update, New Firmware , Advanced, Password, Tones, Default, Language] functions.
Save & Reboot	Provides [Save, Reboot] functios.
Logout	Logout the system.

Notes :

【1】: Phone equipment function °

1.5 System Information

1.5.1 Functions

Show status of Network, Firmware Version and SIP registers.

1.5.2 Instruction

Figure 1: LAN Mode: Bridge

System Information

WAN Port			
Link Status:	UP	Type:	DHCP Client
IP Address:	192.168.50.10	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:09:f3:77:8e:38
LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:09:f3:77:8e:38
System Information			
Firmware Version:	1012090	Update Date:	2010-12-16
DSP Version	LE-1007290		
System Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Network Link Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Current Time:	2010-12-16 18:37		
Register Information			
Phone 1			
Realm 1 Status:	Not Registered	Number:	
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

(Figure 1)

WAN Port	Shows the statuses of WAN Port.
Link Status	Shows the network connected Speed.
Type	Shows the network connected type.
IP Address	Shows IP address of the device.
Subnet Mask	Shows the subnet mask.
Default Gateway	Shows the default gateway.
DNS Server1	Shows the primary DNS server.
DNS Server2	Shows the secondary DNS server.
MAC ID	Shows the MAC ID.
System Information	Shows the statuses of System.
Firmware Version	Shows the firmware version.
Update Date	Shows the date of updating system.
DSP Version	Shows the DSPversion. AC: AC97 WM: Winbound LE: Legeeity NV:Nuvoton
System Up Time	Shows the system running time.
Netwrk Link Up Time	Shows the network running time.
Current Time	Shows the current time.
Register Information	Shows the statuses of SIP register.
Phone 1	Shows the statuses of line 1.
Realm 1 Status	Shows the line 1 register state.
Number	Shows the line 1 register number.
Realm 2 Status	Shows the statuses of line 2.
Number	Shows the line 2 register state.
Realm 3 Status	Shows the line 3 register number.
Number	Shows the statuses of line 3.

Realm 4 Status	Shows the line 4 register state.
Number	Shows the line 4 register number.
Realm 5 Status	Shows the statuses of line 5.
Number	Shows the line 5 register state.

Figure 2: LAN Mode: Bridge + VPN

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	Fixed IP Client
IP Address:	61.62.236.68	Subnet Mask:	255.255.255.0
Default Gateway:	61.62.236.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.192.1	MAC ID:	00:01:a8:02:89:a0
VPN (PPTP/L2TP)			
Type:	PPTP	IP Address:	192.168.50.21
System Information			
Firmware Version:	1009010	Update Date:	
System Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Current Time:	2010-09-15 15:29		
Register Information			
Phone 1			
Realm 1 Status:	Not Registered	Number:	
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

(Figure 2)

WAN Port	Shows the statuses of WAN Port.
Link Status	Shows the network connected Speed.
Type	Shows the network connected type.
IP Address	Shows IP address of the device.
Subnet Mask	Shows the subnet mask.
Default Gateway	Shows the default gateway.
DNS Server1	Shows the primary DNS server.
DNS Server2	Shows the secondary DNS server.
MAC ID	Shows the MAC ID.
VPN (PPTP/L2TP)	Shows the statuses of VPN (PPTP/L2TP)
Type	Shows the VPN connected type.
IP Address	Shows the VPN IP address.
System Information	Shows the statuses of System.
Firmware Version	Shows the firmware version.
Update Date	Shows the date of updating system.
DSP Version	Shows the DSPversion. AC: AC97 WM: Winbound

	LE: Legecity NV:Nuvoton
System Up Time	Shows the system running time.
Netwrk Link Up Time	Shows the network running time.
Current Time	Shows the current time.
Register Information	Shows the statuses of SIP register.
Phone 1	Shows the statuses of line 1.
Realm 1 Status	Shows the line 1 register state.
Number	Shows the line 1 register number.
Realm 2 Status	Shows the statuses of line 2.
Number	Shows the line 2 register state.
Realm 3 Status	Shows the line 3 register number.
Number	Shows the statuses of line 3.
Realm 4 Status	Shows the line 4 register state.
Number	Shows the line 4 register number.
Realm 5 Status	Shows the statuses of line 5.
Number	Shows the line 6 register state.

Figure 3: LAN Mode: NAT

System Information

WAN Port			
Link Status:	UP	Type:	DHCP Client
IP Address:	192.168.50.10	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:09:f3:77:8e:38
LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:09:f3:77:8e:38
System Information			
Firmware Version:	1012090	Update Date:	2010-12-16
DSP Version	LE-1007290		
System Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Network Link Up Time:	0 day(s) 7 hour(s) 23 minute(s)		
Current Time:	2010-12-16 18:37		
Register Information			
Phone 1			
Realm 1 Status:	Not Registered	Number:	
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

(Figure 3)

WAN Port	Shows the statuses of WAN Port.
Link Status	Shows the network connected Speed.

Type	Shows the network connected type.
IP Address	Shows IP address of the device.
Subnet Mask	Shows the subnet mask.
Default Gateway	Shows the default gateway.
DNS Server1	Shows the primary DNS server.
DNS Server2	Shows the secondary DNS server.
MAC ID	Shows the MAC ID.
LAN	Shows the statuses of LAN Port.
IP Address	Shows the LAN IP address.
MAC ID	Shows the LAN MAC ID.
System Information	Shows the statuses of System.
Firmware Version	Shows the firmware version.
Update Date	Shows the date of updating system.
DSP Version	Shows the DSPversion. AC: AC97 WM: Winbound LE: Legeeity NV:Nuvoton
System Up Time	Shows the system running time.
Netwrk Link Up Time	Shows the network running time.
Current Time	Shows the current time.
Register Information	Shows the statuses of SIP register.
Phone 1	Shows the statuses of line 1.
Realm 1 Status	Shows the line 1 register state.
Number	Shows the line 1 register number.
Realm 2 Status	Shows the statuses of line 2.
Number	Shows the line 2 register state.
Realm 3 Status	Shows the line 3 register number.
Number	Shows the statuses of line 3.
Realm 4 Status	Shows the line 4 register state.
Number	Shows the line 4 register number.
Realm 5 Status	Shows the statuses of line 5.
Number	Shows the line 6 register state.

Figure 4: LAN Mode: NAT + VPN

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	Fixed IP Client
IP Address:	61.62.236.68	Subnet Mask:	255.255.255.0
Default Gateway:	61.62.236.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.192.1	MAC ID:	00:01:a8:02:89:a0
LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:02:aa:12:34:cd
VPN (PPTP/L2TP)			
Type:	PPTP	IP Address:	192.168.50.21
System Information			
Firmware Version:	1009010	Update Date:	
System Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Current Time:	2010-09-15 15:30		
Register Information			
Phone 1			
Realm 1 Status:	Not Registered	Number:	
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

(Figure 4)

WAN Port	Shows the statuses of WAN Port.
Link Status	Shows the network connected Speed.
Type	Shows the network connected type.
IP Address	Shows IP address of the device.
Subnet Mask	Shows the subnet mask.
Default Gateway	Shows the default gateway.
DNS Server1	Shows the primary DNS server.
DNS Server2	Shows the secondary DNS server.
MAC ID	Shows the MAC ID.
LAN	Shows the statuses of LAN Port.
IP Address	Shows the LAN IP address.
MAC ID	Shows the LAN MAC ID.
VPN (PPTP/L2TP)	Shows the statuses of VPN (PPTP/L2TP)
Type	Shows the VPN connected type.
IP Address	Shows the VPN IP address.
System Information	Shows the statuses of System.
Firmware Version	Shows the firmware version.
Update Date	Shows the date of updating system.
DSP Version	Shows the DSPversion.

	AC: AC97 WM: Winbound LE: Legeeity NV:Nuvoton
System Up Time	Shows the system running time.
Netwrk Link Up Time	Shows the network running time.
Current Time	Shows the current time.
Register Information	Shows the statuses of SIP register.
Phone 1	Shows the statuses of line 1.
Realm 1 Status	Shows the line 1 register state.
Number	Shows the line 1 register number.
Realm 2 Status	Shows the statuses of line 2.
Number	Shows the line 2 register state.
Realm 3 Status	Shows the line 3 register number.
Number	Shows the statuses of line 3.
Realm 4 Status	Shows the line 4 register state.
Number	Shows the line 4 register number.
Realm 5 Status	Shows the statuses of line 5.
Number	Shows the line 6 register state.

2. Phone

Provides functions of [Phone Book, Speed Dial, Dial Plan, Call Service, and General..

2.1 Phone Book

2.1.1 Functions

Phone Book can provide 140 entries. When user A dials a [Name], Phone Book will check it onPhone Book. If system finds it, system will dial the [Number] of [Name]. If the [Name] is not on Phone Book, system will dial the number you dial.

2.1.2 Instruction

Phone Book Setting

Page:

Index	Name	Number	Action
1	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
4	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
5	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
6	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
7	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
8	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
9	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
10	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
11	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
12	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
13	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
14	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
15	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
16	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
17	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
18	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
19	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
20	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>

Column	instruction
Page	Default: Page 1. Select the page, from Page1~Page14.
Index	Shows the serial number. 140 entries in total, from Phone 0~139
Name	Set the User's name. These columns provide the function of speed dial by only input numbers; maximum length is 63 bytes.

Number	Set the user's number. These columns can input numbers and strings; maximum length is 63 bytes. Ex: 0212345678, 0800024365, www.dyndns.info
Action [Botton]	Provides [Delete] button to erase the datas.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.1.3 Operate Instruction

Step 1: On the [Phone Book Setting] page, set [Index: 0, Name: 301, Number: 301@192.168.1.2; Index: 1, Name: 206, Number: 1747643364; Index: 2, Name: test, Number: 8123478944566] (See Figure 1).

Index	Name	Number	Action
1	301	301@192.168.1.2	Delete
2	206	1747643364	Delete
3	test	8123478944566	Delete
4			Delete

(Figure 1)

Instruction 1: Dial [301], system finds the [301] on Index 1, then system dial Name's Number of Index 1. System will dial [192.168.1.2]

Instruction 2: Dial [206], system finds the [206] on Index 2, then system dial Name's Number of Index 2. System will dial [17476433364].

Instruction 3: Because Index 3's Name is a string, so the speed dial function can not be use, you can just check the Index 3'Name and Number.

2.2 Speed Dial Setting

2.2.1 Functions

Phone provides [M1 ~ M10], [Pick-up] and [Voice Mail] Functions Key. **There must be corresponding M1 to M10 quick dial function button on the phone set; otherwise, the quick dial function will be ineffective.**

2.2.2 Instruction

Speed Dial Setting

Index	Name	Number	Action
1	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
4	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
5	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
6	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
7	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
8	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
9	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
10	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>

Pick Up

Voice Mail

Columne	Instruction
Index	Shows the serial numbers. 10 entries in total correspond M1 to M10 quick dial function button on the phone set.
Name	Set the user's name with no speed dial function. This columne can input numbers and strings; maximum length is 31 bytes. Ex: 0212345678, 0800024365, www.dyndns.info
Number	Set the Number. This clolumne can input numbers and strings; maximum length is 63 bytes.
Action [Botton]	Provides [Delete] button to erase the datas.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.2.3 Operate Instruction

Example 1: bottoms [M1~M2]

Step 1: On the [Speed Dial Setting] page, set [Index: 1, Name: test, Number:812345679; Index: 2, Name: op, Number:900] (See Figure 1).

Index	Name	Number	Action
1	<input type="text" value="test"/>	<input type="text" value="812345679"/>	<input type="button" value="Delete"/>
2	<input type="text" value="op"/>	<input type="text" value="900"/>	<input type="button" value="Delete"/>

(Figure 1)

Instruction 1: Press [M1] button on the Phone set, system will dial [812345679] at once.

Instruction 1: Press [M2] button on the Phone set, system will dial [900] at once.

Example 2: buttons [Pick Up & Voice mail]

Step 1: On the [Speed Dial Setting] page, set [Pick up: *98 , Voice Mail: *97] (See Figure 2).

Pick Up	<input type="text" value="*98"/>
Voice Mail	<input type="text" value="*97"/>

(Figure 2)

Instruction 1: Press [Pick UP] button on the Phone set; you can answer another ringing phone.

Instruction 2: Press [Voice Mail] button on the Phone set, you can listen your messages on Voice Mail.

2.3 Dial Plan

2.3.1 Functions

Dial Plan provides Dial Now, Realm Prefix, Auto Dial Time, Use # as send Key.

2.3.2 Instruction

Dial Plan Setting

Index	Drop prefix	Prefix	Rule
1	Disable ▾	<input type="text"/>	<input type="text"/>
2	Disable ▾	<input type="text"/>	<input type="text"/>
3	Disable ▾	<input type="text"/>	<input type="text"/>
4	Disable ▾	<input type="text"/>	<input type="text"/>

Index	Dial Now Rule
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
6	<input type="text"/>
7	<input type="text"/>
8	<input type="text"/>

Realm 1 prefix:	<input type="text" value="1*"/>
Realm 2 prefix:	<input type="text" value="2*"/>
Realm 3 prefix:	<input type="text" value="3*"/>
Realm 4 prefix:	<input type="text" value="4*"/>
Realm 5 prefix:	<input type="text" value="5*"/>

Auto Dial Time:	<input type="text" value="5"/> (sec)
Use # as send key:	Enable ▾

Columne	Instrction
Index	Shows the serial number. Provides 4 set for adding numbers or dropping numbers.
Drop Prefix	Default: Disable. When setting Enable and encountering the accordant rule, the [Pefix] will be replace the dialing number. When setting Disable, and encountering the accordant rule, the [Pefix] will be add in front of the dialing number.
Prefix	Set the number for adding or dropping. These cloumes can input numbers; maximum length is 8 bytes.
Rule	Set the accordant rule. This cloume can input numbers or signs; maximum length is 40 bytes.

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

	Sign: [+ , x]. + represents "or", ex: 123+456+334+5xx, it represents "123", "456", "334" or "5xx". x: 0~9, ex: 5xx · if the first dialing number is "5", [Prefix] will replace or add it. *If the Prefix only has 2 bytes, the first byte can not be "0".
Index	Shows the serial number. Provides 8 set for Dial Plan.
Dial Now Rule	Provides the rules for dialing at once. When encountering the accordant rule, system will dial number at once without receiving "#" or waiting past [Auto Dial Time]. This cloume can input numbers or signs; maximum length is 80 bytes. Sign: [* , # , + , x]. + Represents "or". x: 0~9. But the first digit cannot be "0". Because 0 cannot judge the rule. So if Dial Now begins with "0", the system cannot work.
Realm 1 prefix	Default: 1*; Change realm to the first one. If you want to use the first realm, you can input [Realm 1 prefix](number+sign) to change realm, no matter what now you stay on which one. This cloume can input numbers or signs; maximum length is 7 bytes. Number: 0~9. Sign: [* , #].
Realm 2 prefix	Default: 2*; Change realm to the second one. If you want to use the second realm, you can input [Realm 2 prefix](number+sign) to change realm, no matter what now you stay on which one. This cloume can input numbers or signs; maximum length is 7 bytes. Number: 0~9. Sign: [* , #].
Realm 3 prefix	Default: 3*; Change realm to the third one. If you want to use the third realm, you can input [Realm 3 prefix](number+sign) to change realm, no matter what now you stay on which one. This cloume can input numbers or signs; maximum length is 7 bytes. Number: 0~9. Sign: [* , #].
Realm 4 prefix	Default: 4*; Change realm to the fourth one. If you want to use the fourth realm, you can input [Realm 4 prefix](number+sign) to change realm, no matter what now you stay on which one. This cloume can input numbers or signs; maximum length is 7 bytes. Number: 0~9. Sign: [* , #].
Realm 5 prefix	Default: 5*; Change realm to the fifth one. If you want to use the fifth realm, you can input [Realm 5 prefix](number+sign) to change realm, no matter what now you stay on which one. This cloume can input numbers or signs; maximum length is 7 bytes. Number: 0~9. Sign: [* , #].
Auto Dial Time	Default: 5 second. After waiting for a while, but didn't input any number, Auto Dial will run automatically.

	Time zone: (3~9 sec). Provides option 3~9.
Use # as send key	Default: Enable. It ends with # when execute this action. When setting NO, it didn't end with # when execute this action, but according with Auto Dial Time, after waiting for a while, and didn't input any information, then execute this action. Provides option Enable & Disable.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.3.3 Operate Instruction

Example 1: Drop Prefix & Dial Now Functions

Step 1: On [Dial Plan Setting], set information [Index: 1, Drop prefix: Disable, Prefix: 002, Rule: 8613+8662 ; Index: 2, Drop prefix: Enable, Prefix: 006, Rule: 002+003+004+005+007+009 ; Index: 3, Drop prefix: Disable, Prefix: Replace: 009, Rule: 12; Index: 4, Drop prefix: Disable, Prefix: 007, Rule: 53+35xx +21xx; Index: 1, Dial Now Rule: *xx+#xx+11x+xxxxxxx] (see Figure 1).

Index	Drop prefix	Prefix	Rule
1	Disable	002	8613+8662
2	Enable	006	002+003+004+005+007+009
3	Disable	009	12
4	Disable	007	53+35xx+21xx

Index	Dial Now Rule
1	*xx+#xx+11x+xxxxxxx
2	

(Figure 1)

Instruction 1:

Application 1: When dialing [8613xxxx], all numbers that begin with 8613, will be added with 002, so actually the dialing number is [002+8613+xxx].

Application 2: When dialing [8662xxxx], all numbers that begin with 8662, will be added with 002, so actually the dialing number is [002+8662+xxx].

Instruction 2:

Application 1: When input [002+86xxxx] and all numbers that begin with 002 will be replaced by 006; so actually the dialing number is [006+86xxx].

Application 2: When input [003+77xxxx] and all numbers that begin with 003 will be replaced by 006; so actually the dialing number is [006+77xxx].

Instruction 3:

Application 1: When input [12xxxx], and all numbers that begin with 12, will be added with 009; so actually the dialing number is [009+12+xxx].

Instruction 4:

Application 1: When input [53789], and all numbers that begin with 53, will be added with 007; so actually the dialing number is [007+53789].

Application 2: When input [3507], and all numbers that begin with 35, will be added with 007; so actually the dialing number is [007+3507].

Application 3: When input [2199], and all numbers that begin with 21, will be added with 007; so actually the dialing number is [007+2199].

Instruction 5:

Application 1: Any information that meet the condition “*xx” will be sent out immediately, like [*00, *01, *02... *99].

Application 2: Any information that meet the condition” #xx” will be sent out immediately, like [#00, #01, #02...#99].

Application 3: Any information that meet the condition ”11x” will be sent out immediately, like [110, 111, 112 ... 119].

Application 4: If input 8 digit numbers, the system will send out the number immediately. E.g.: 12345678.

2.4 Call Service

2.4.1 Functions

Call Service provides Forward, Hotline, DND, Alarm.

2.4.2 Instruction

Call Service Setting

Forward Type	Forward Number	Rings
Disable ▼		2 ▼ Phone 1
Hotline Type	Hotline Number	Delays
Disable ▼	192.168.50.19	0 ▼ Phone 1
DND Type	DND Time	DND Line
Disable ▼	From 0 : 0 To 0 : 0 (hh:mm)	Phone 1
Alarm Type	Alarm Time	Alarm Line
Disable ▼	0 : 0 (hh:mm)	Phone 1

Columne	說 明
Forward Type of phone 1	Default: Disable. Provides option: Disable, All, Busy, No Answer, Busy or No Answer. *Please check the Forward function supported by your SIP register server provider.
Forward Number of phone 1	These cloume can input numbers or string; maximum length is 63 bytes.
Rings of phone 1	Default: 3(Ring). When ringing 3 times but no one answers, it is regarded as no one answers the call. Provides option 1~6 Rings. The function only supports No Answer Functions.
Hotline Type of phone 1	Default: Disable. When setting Enable, as long as pick up the phone, it will dial to the pre-setted phone number automatically.
Hotline Number of phone 1	Set Hotline Number, it can be numbers or address. This cloume can input numbers or string; maximum length is 63 bytes.
Delay of phone 1	Default: 3 secs ; When picking up the phone handset and passing how many secs, then the system will dial the Hotline Number automatically. Provides option 0~6 secs.
DND Type of phone 1	Default: Disable. DND Setting allows denying all incoming calls or denies all incoming calls in a certain time period. Provides option: Disable, Always, and Period.
DND Time of phone 1	Default: From 0:0 (start) To 0:0 (end). These 4 cloumes can only input numbers; maximum length is 2 bytes respectively.
Alarm Type of phone	Default: Disable.

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

1	When setting Enable, alarm function will execute. Duration is 1 minute. Stop the alarm by pick up the handset. Provides option: Disable, Enable.
Alarm Time for phone 1	Default: 0:0 (hh:mm). These 2 cloumes can only input numbers; maximum length is 2 bytes respectively.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.4.3 Operate Instruction

Example 1: Forward Functions

◆ All

Step 1: On [Call Service Setting], set information [Forward Type: All, Forward Number: 812345678] (see Figure 1).

Forward Type	Forward Number	Rings
All	812345678	0 Phone 1

(Figure 1)

Step 2: When receiving a new incoming call, and it will forward to code [Forward Number: 812345678] automatically.

◆ Busy

Step 1: On [Call Service Setting], set information [Forward Type: Busy, Forward Number: 405] (see Figure 2).

Forward Type	Forward Number	Rings
Busy	405	3 Phone 1

(Figure 2)

Step 2: When the line is busy, it will forward to, it will forward to [Forward Number: 405] automatically.

◆ Busy or No Answer

Step 1: On [Call Service Setting], set information [Forward Type: No Answer, Forward Number: 031237788] (see Figure 1).

Forward Type	Forward Number	Rings
Busy or No Answer	031237788	3 Phone 1

(Figure 3)

Step 2: When the line is busy, it will forward to, it will forward to [Forward Number: 405] automatically.

Step 3: When it rings 3 time, and nobody answer the phone, it will forward to [Forward Number: 031237788].

Example 2: Hotline Functions

◆ Dial SIP account

Step 1: On [Call Service Setting], set information [Hotline Type: Enable , Hot Line number: 82341234, Delay: 3] (see Figure 6).

Hotline Type	Hotline Number	Delay
Enable	82341234	0 Phone 1

(Figure 6)

Step 2: When picking up the phone and wait 3 delay, it will dial to [Hot Line number: 82341234] automatically.

◆ Dial IP address

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

Step 1: On [Call Service Setting], set information [Hotline Type: Enable , Hot Line number: 192.168.50.4, Delay: 3] (see Figure 7).

Hotline Type	Hotline Number	Delay
Enable	192.168.50.4	3 Phone 1

(Figure 7)

Step 2: When picking up the phone and wait 3 delay, it will dial to [Hot Line number: 192.168.50.4] automatically.

DND Type	DND Time	DND Line
Period	From 18 : 15 To 22 : 20 (hh:mm)	Phone 1

Example 3: DND function

◆ Period

Step 1: On [Call Service Setting], set information [DND Type: Period, Form: 18:15, To: 22:20] (see Figure 8).

DND Type	DND Time	DND Line
Period	From 18 : 15 To 22 : 20 (hh:mm)	Phone 1

(Figure 8)

Step 2: When receiving a new call during DND time period, the caller will hear “busy tone”.

◆ Always

Step 1: On [Call Service Setting], set information [DND Type: Always] (see Figure 9).

DND Type	DND Time	DND Line
Disable	From 18 : 15 To 22 : 20 (hh:mm)	Phone 1

(Figure 9)

Step 2: When receiving a new call, the caller will hear “busy tone”.

Example 4: Alarm function

Step 1: On [Call Service Setting], set information [Alarm Type: Enable , Alarm Time: 21:0] (see Figure 10).

Alarm Type	Alarm Time	Alarm Line
Enable	21 : 0 (hh:mm)	Phone 1

(Figure 10)

Step 2: At 21:00 everyday, the alarm will start to work, and last 1min. After 1 min, the alarm will stop. During ringing, pick up the phone, the alarm will stop automatically.

2.5 General

2.5.1 Functions

General provides Caller ID, Call Waiting, Auto Answer, FAX, etc....

2.5.2 Instruction

General Setting

Call Waiting:	Enable	▼
Ring Timeout:	60	▼ (sec)
Auto Answer Call:	Disable	▼ (Ring)
Auto On-Hook After Bye:	30	▼ (sec)
Mute After Auto Answer:	Disable	▼

Columne	Instruction
Call Waiting	Default: Enable. When setting Call Waiting Enable and a call income, you will head a hint tone, if you want to pick up the call waiting, you need press the key [Hold] or [Flash]. Provides options: Disable, Enable.
Ring Timeout	Default: 60 (sec); set The system will send a stop message to the caller when you don't answer it for the Ring Timeout you set it past. Provides options: 20, 40, 60, 80, 120, 180, 240 °
Auto Anwser Call	Default: Enable. If you Enable this function, when receiving an incoming call, the system will answer the call automatically and open microphone. Provides options: Disable, Enable
Auto On-Hook After Bye	Default: 30 (sec). The system will auto On-hook when the system receive a bye message for the seconds you set it past. Provides options: 0, 5, 10, 20, 30 °
Mute After Auto Answer	Default: Disable. If you Enable this function, the system will set mute after it answer a call automatically. Provides options: Disable, Enable.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.6 Volume

2.6.1 Functions

Volume can set the volume of the device.

2.6.2 Instruction

Volume Setting

Handset Volume:	10 ▼
Handset Gain:	10 ▼
Speaker Volume:	10 ▼
Speaker Gain:	8 ▼
Ringer Volume:	6 ▼
Ringer Type:	Ring Tone ▼

(10 representative is 0 dB and every scale is 3 dB)

Colume	Instruction
Handset Volume	Default: 10. Set your Handset Volume. Provides options: 0~14.
Handset Gain	Default: 10. Set the volume of the other side hearing. Provides options: 0~15.
Speaker Volume	Default: 10. Set the volume of your speaker. Provides options: 0~14.
Speaker Gain	Default: 10. Set the speaker volume of the other side hearing. Provides options: 0~10.
Ringer Volume	Default: 6. Provides options: 0~15.
Ring Type	Default: Ring Tone. Provides options: Ring Tone, Melody 1, Melody 2, Melody 3. Ring Tone: Refer to Tones Setting argument [Ring Tone].
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

2.6.3 Operate Instruction

Example 1: Ring Type

Step 1: On [Genereal Setting], set [Ringer Type: Melody 3] (see Figure 1).

Handset Volume:	10 ▼
Handset Gain:	10 ▼
Speaker Volume:	10 ▼
Speaker Gain:	8 ▼
Ringer Volume:	6 ▼
Ringer Type:	Melody 3 ▼
PSTN-Out Volume:	10 ▼
PSTN-In Gain:	10 ▼

(Figure 1)

Step 2: When receiving an incoming call, you will listen a different ring.

3. Network

Provides functions of [WAN, DDNS, VLAN, VPN, SNTP].

3.1 WAN

3.1.1 Functions

WAN provides functions to set system how to connect network including fixed IP, DHCP Client and PPPoE.

3.1.2 Instruction

WAN Setting

Type:	PPPoE
IP Address:	192.168.50.26
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1
DNS Type:	Fixed
DNS Server1:	164.124.101.2
DNS Server2:	203.248.252.2
MAC ID:	00:01:a8:03:ef:a3
Host Name:	VOIP_TA25
PPPoE User Name:	
PPPoE Password:	
PPPoE Service Name:	
PPPoE AC Name:	
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

(Figure 1)

Colume	Instruction
Type	Default: DHCP Client. Set the network connecting way includes fixed IP, DHCP Client and PPPoE. Fixed IP: Input IP address. DHCP Client: Get IP from DHCP server. PPPoE: Uses PPPoE to connenct network. Provides options: Fixed IP, DHCP Client, and PPPoE.
IP	Shows the current IP address, the input type is xxx.xxx.xxx.xxx of 15 bytes. *If you want to set the IP address by yourself, please set [TYPE] to [Fixed IP] first, then you can input the IP address.
Mask	Shows the current Subnet Mask IP Address, the input type is xxx.xxx.xxx.xxx of 15 bytes.
Gateway	Shows current Default Gateway IP Address, the input type is xxx.xxx.xxx.xxx of 15 bytes.
DNS Type	Default: Auto. Fixed: Set DNS Server address. Auto: Get DNS Server address by DHCP Server and this option only supports DHCP Client and PPPoE. Provides options: Fixed, Auto.

DNS Server1	Default: 168.95.192.1. The input type is xxx.xxx.xxx.xxx of 15 bytes.
DNS Server2	Default: 168.95.1.1. The input type is xxx.xxx.xxx.xxx of 15 bytes.
MAC ID	Shows the MAC ID address.
Host Name	Default: Product name. This columne can input numbers and strings; maximum length is 15 bytes.
PPPoE User Name	This columne can input numbers and strings; maximum length is 32 bytes.
PPPoE Password	This columne can input numbers and strings; maximum length is 32 bytes.
PPPoE Service Name	This columne can input numbers and strings; maximum length is 32 bytes. <i>*The data of this columne is provided by ISP, if you don't known what is the data, do not set it.</i>
PPPoE AC Name	This columne can input numbers and strings; maximum length is 32 bytes. <i>*The data of this columne is provided by ISP, if you don't known what is the data, do not set it.</i>
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

3.1.3 Operate Instruction

Example 1: Check Host Name

Step 1: On [WAN Setting], set [Type: DHCP Client, Host Name: VOIP_PHONE] (see Figure 1).

WAN Setting

Type:	DHCP Client
IP Address:	114.45.139.30
Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254
DNS Type:	Fixed
DNS Server1:	168.95.192.1
DNS Server2:	168.95.1.1
MAC ID:	00:01:a8:02:8a:43
Host Name:	VOIP_PHONE

(Figure 1)

Step 2: You can know the current statuses of WAN port on [System Information] (see Figure 2).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	DHCP Client
IP Address:	192.168.50.4	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:8a:43

LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:01:a8:02:8a:43

(Figure 2)

Example 3: Check PPPoE

Step 1: On [WAN Setting], set [Type: PPPoE, PPPoE User Name: test, PPPoE Password: test, PPPoE Service Name: good, PPPoE AC Name: GS-BRAS-D09] (see Figure 3).

WAN Setting

Type:	PPPoE
IP Address:	114.45.139.30
Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254
DNS Type:	Fixed
DNS Server1:	168.95.192.1
DNS Server2:	168.95.1.1
MAC ID:	00:01:a8:02:8a:43
Host Name:	VOIP_PHONE

PPPoE User Name:	88158590@hinet.net
PPPoE Password:	●●●●●●
PPPoE Service Name:	good
PPPoE AC Name:	GS-BRAS-D09

(Figure 3)

Step 2: You can know the current statuses of WAN port on [System Information]. The WAN port statuses [Type: PPPoE Client, IP: 114.45.139.64] (see Figure 4).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	PPPoE Client
IP Address:	114.45.139.64	Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:8a:43

LAN Port			
IP:	192.168.123.1	MAC ID:	00:01:a8:02:8a:43

(Figure 4)

3.2 DDNS

3.2.1 Functions

DDNS provides functions to set DDNS.

3.2.2 Instruction

DDNS Setting

Active:	Disable ▼
Host Name:	<input type="text"/>
User Name:	<input type="text"/>
Password:	<input type="password"/>
E-mail Address:	<input type="text"/>
DDNS Server List:	members.dyndns.org ▼
DDNS Server:	<input type="text"/>
Type:	dyndns ▼
Wild Card:	Disable ▼
BACKMX:	Disable ▼
Off Line:	Disable ▼

Columne	Instruction
DDNS	Default: Disable. Provides options: Disable, Enable.
Host name	Input Host name, can be IP Address or Domain Name. This columne can input numbers and strings; maximum length is 63 bytes.
User Name	Input user's name for registering DDNS Server. This columne can input numbers and strings; maximum length is 63 bytes.
Password	Input user's password for registering DDNS Server. This columne can input numbers and strings; maximum length is 63 bytes.
E-mail address	Input E-mail address. This columne can input numbers and strings; maximum length is 63 bytes.
DDNS Server List	Default: members.dyndns.org. Display DDNS server's name list information. Provides options: user input, members.dyndns.org, www.dtdns.com , ddns.com.cn.
DDNS Server	Input DDNS Server, can be IP Address or Domain Name. This columne can input numbers and strings; maximum length is 63 bytes.
Type	Default: dyndns. Provides options: dyndns, statdns and customer. If you choose customer, you can change the type information.*
Wild Card	Default: Enable. Provides: Disable, Enable, nochg.*
BACKMX	Default: Enable. Provides: Disable, Enable.*
Off Line	Default: Enable. Provides: Disable, Enable.*

Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

***: Not all DNS provider can provide this function, if you want to use this function, please contact with your provider.**

3.2.3 Operate Instruction

Example 1: Uses members.dyndns.org

Step 1: On [DDNS Setting], set [Active: Enable › Host Name: totoro609.dyndns-blog.com, User Name: totoro609, Password: test, E-mail Address: totoro609@hotmail.com, DDNS Server List: members.dyndns.org, Type: dyndns, Wild Card: Disable, BACKMX: Disable, Off Line: Disable] (see Figure 1).

Active:	Enable ▼
Host Name:	totoro609.dyndns-blog.com
User Name:	totoro609
Password:	•••••
E-mail Address:	totoro609.dyndns-blog.com
DDNS Server List:	members.dyndns.org ▼
DDNS Server:	
Type:	dyndns ▼
Wild Card:	Disable ▼
BACKMX:	Disable ▼
Off Line:	Disable ▼

(Figure 1)

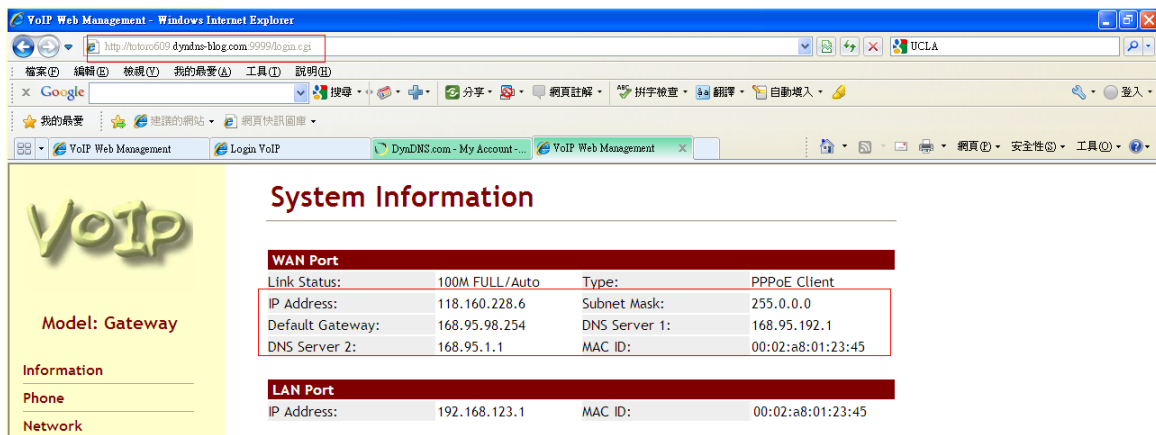
Step 2: Login in DynDNS Server and check the current IP address of [DDNS: totoro609.dyndns-blog.com].



Hostname	Service	Details	Last Updated
totoro609.dyndns-blog.com	Host	118.160.228.6	Sep. 16, 2010 9:21 AM
totorocmi.dyndns.info	Host	118.160.232.33	Sep. 15, 2010 5:20 PM

(Figure 2)

Step 3: Input [http://totoro609.dyndns-blog.com:9999] on URL, then you will enter a logining page, you can check the IP address of [WAN Port] on [System Information] after logining correct (see Figure 3).



System Information

WAN Port			
Link Status:	100M FULL / Auto	Type:	PPPoE Client
IP Address:	118.160.228.6	Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:02:a8:01:23:45

LAN Port	
IP Address:	192.168.123.1
MAC ID:	00:02:a8:01:23:45

(Figure 3)

3.3 VLAN

3.3.1 Functions

VLAN provides functions to set VLAN including Network, SIP & RTP. **These functions must work with a VLAN Router.**

3.3.2 Instruction

VLAN Setting

Network (Both WAN & LAN)

VLAN Active: Disable
VID (802.1Q/TAG): 136 (3~4094)
User Priority (802.1P): 7

SIP & RTP

SIP VID: 0 (3~4094, 0: Disable)
SIP User Priority (802.1P): 0
RTP VID: 0 (3~4094, 0: Disable)
RTP User Priority (802.1P): 0

Submit Reset

(Figure 1)

Columne	Instruction
Network (Both WAN & LAN)	Set VLAN functions.
VLAN Packets	Default: Disable. When Enabling this function, receiving VALN Packets function will be started. Provides: Disable, Enable.
VID (802.1Q/ TAG)	Default: 136. Provides Virtual LAN ID (VLAN or VID) for VLAN Server. This columne can only input numbers; maximum length is 4 bytes with the range 3~4097.
User Priority (802.1P)	Default: 0. This columne can only input number; maximum length is 1 bytes with the range 0~7.
SIP & RTP	Set the VLAN functios of SIP & RTP
SIP VID	Default: 0. If you Enable this function, SIP ethereal packages will contain of VLAN ID instead of Enabling VLAN Packets. This columne can only input numbers; maximum length is 4 bytes with the range 3~4094, and 0 is Disable.
User Priority (802.1P)	Default: 0. Provides options: 0~7.
RTP VID	Default: 0. If you Enable this function, RTP ethereal packages will contain of VLAN ID instead of Enabling VLAN Packets. This columne can only input numbers; maximum length is 4 bytes with the range 3~4094, and 0 is Disable.
User Priority (802.1P)	Default: 0.

	Provides options: 0~7.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

3.3.3 Operate Instruction

Example 1: Network VLAN functions

Step 1: On [VLAN Setting], set [VLAN Packets: Enable, VID (802.1Q/TAG): 136, User Priority (802.1P): 0] (see Figure 1).

Network (Both WAN & LAN)	
VLAN Packets:	Disable ▾
VID (802.1Q/TAG):	136 (3~4094)
User Priority (802.1P):	7 ▾

(Figure 1)

Example 2: SIP & RTP VLAN fuctions

Step 1: On [VLAN Setting], set [VLAN Packets: Disable, SIP VID: 136, RTP VID: 136] (see Figure 2).

SIP & RTP	
SIP VID:	136 (3~4094, 0: Disable)
SIP User Priority (802.1P):	0 ▾
RTP VID:	136 (3~4094, 0: Disable)
RTP User Priority (802.1P):	0 ▾

(Figure 2)

3.4 VPN (PPTP/L2TP)

3.4.1 Functions

VPN provides functions to set PPTP/L2TP. **When you enable the VPN functions, you would login in system by LAN.**

3.4.2 Instruction

VPN Setting

Type:	Disable ▾
Server Name:	<input type="text"/>
User Name:	<input type="text"/>
Password:	<input type="password"/>
Port Number:	Default ▾ <input type="text" value="1723"/> (1024~65535,Only Support PPTP)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Colume	Instruction
Type	Default: Disable. Set the network connecting type of PTP/L2TP. Provides options: Disable, PPTP, L2TP.
Server Name	Input connecting Server address. This colume can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes.
User Name	Input user's name. This colume can input numbers of strings; maximum length is 63 bytes.
Password	Input user's password. This colume can input numbers of strings; maximum length is 63 bytes.
Port Number	Default: Disable, Port: 1723. Set the Port Number of PPTP, when you select Customer, you can input the Port Number of PPTP by yourself. This colume can only input numbers; maximum length is 5 bytes with the range 1024~65535. Provides options: Default, Customer.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

3.4.3 Operate Instruction

Example 1: PPTP

Step 1: On [VPN Setting] set, [Type: PPTP, Server Name: 118.169.209.251, User Name: totoro, Password: test, Port Number: Default] (see Figure 1).

Type:	PPTP ▾
Server Name:	<input type="text" value="118.169.209.251"/>
User Name:	<input type="text" value="totoro"/>
Password:	<input type="password" value="•••"/>
Port Number:	Default ▾ <input type="text" value="1723"/> (1024~65535,Only Support PPTP)

(Figure 1)

Step 2: You can know the current statuses of VPN (PPTP/L2TP) on [System Information] by connecting LAN Port to login in [http://192.168.123.1:9999], (see Figure 2).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	PPPoE Client
IP Address:	118.160.221.82	Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:89:a0
LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:02:aa:12:34:cd
VPN (PPTP/L2TP)			
Type:	PPTP	IP Address:	192.168.50.20
System Information			
Firmware Version:	1009010	Update Date:	
System Up Time:	0 day(s) 0 hour(s) 1 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 1 minute(s)		
Current Time:	2010-09-15 17:33		

(Figure 2)

Example 2: L2TP

Step 1: On [VPN Setting], set [Type: L2TP, Server Name: 118.169.209.251, User Name: totoro, Password: test, Password: test], (see Figure 3).

Type:	<input type="text" value="L2TP"/>
Server Name:	<input type="text" value="118.169.209.251"/>
User Name:	<input type="text" value="totoro"/>
Password:	<input type="password" value="..."/>
Port Number:	<input type="text" value="Default"/> <input type="text" value="1723"/> (1024~65535, Only Support PPTP)

(Figure 3)

Step 3: You can know the current statuses of VPN (PPTP/L2TP) on [System Information] by connecting LAN Port to login in [http://192.168.123.1:9999], (see Figure 4).



System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	PPPoE Client
IP Address:	118.169.211.180	Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:89:a0
LAN Port			
IP Address:	192.168.123.1	MAC ID:	00:02:aa:12:34:cd
VPN (PPTP/L2TP)			
Type:	L2TP	IP Address:	192.168.50.22
System Information			
Firmware Version:	1009010	Update Date:	
System Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 2 minute(s)		
Current Time:	2010-09-15 16:04		

(Figure 4)

3.5 SNTP

3.5.1 Functions

SNTP provides functions to set Time and Daylight Saving.

3.5.2 Instruction

SNTP Setting

Active:	Enable
Primary Server:	north-america.pool.ntp.org
Secondary Server:	asia.pool.ntp.org
Time Zone:	GMT + 08 : 00 (hh:mm)
synchronize Time:	6 hour
Daylight Saving Time:	Disable
DST Offset:	+ 1 hour
DST Start Date:	Jan Day of Month 01 Week 1 Sun 00
DST End Date:	Jan Day of Month 01 Week 1 Sun 00
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Columne	Instruction
SNTP	Default: Enable. When Enable this function, the SNTP is on. Provides options: Disable, Enable.
Primary Server	Default: north-america.pool.ntp.org. This columne can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes.
Secondary Server	Default: asia.pool.ntp.org. This columne can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes.
Time Zone	Default: GMT + 08:00 (hh:mm) and the format is (+/-, hh:mm). Provides options: +/-, 0~13(hh), 00, 15, 30, 45(mm).
Sync. Time	Default: 6. Sync. Time will check the time with the Server every the period you set it. Provides options: 1 min., 5 min., 30 min., 1 hour, 3 hour, 6 hour, 12 hour, 24 hour.
Daylight Saving Time	Default: Disable. When Enable this function, the Daylight Saving is on. Provides options: Disable, Enable.
DST Offset	Default: +1 Hour. Set the Daylight Saving Time differences. Provides options: -2 hour, -1 hour, +1 hour, +2 hour.
DST Satrt Date	Set up Daylight Saving Time. You can select the start date by day or week. Set up beginning month: Default setting is Jan. Here offers options from Jan to Dec. Day of Month : Default setting is 01. Here provides options from 1th to 31th. Week of Month: Selects the effective week. Here provides options for Last Week, Last Second Week, Week1, Week2 and Week3 . Day : Provides options: Sun, Mon, Tue, Wed, Thu, Fri, Sat.

	Start Time : 00~23.
DST End Date	Stop Daylight Saving Time setting. You can select the end date by day or week. Set up ending month: Default setting is Jan. Here offer options froms Jan to Dec. Day of Month : Default setting is 01. Here provides options from 1th to 31th. Week of Month: Selects the effective week. Here provides options for Last Week, Last Second Week, Week1, Week2 and Week3 ° Day : Provides options: Sun, Mon, Tue, Wed, Thu, Fri, Sat. Start Time : 00~23.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

3.5.3 Operate Instruction

Example 1: SNTP setting

Step 1: On [SNTP Setting], [Active: Enable, Primary Server: north-america.pool.ntp.org, Secondary Server: asia.pool.ntp.org, Time Zone: GMT+ 08:00, Sync. Time: 6 hour], (see Figure 1).

Active:	Enable
Primary Server:	north-america.pool.ntp.org
Secondary Server:	asia.pool.ntp.org
Time Zone:	GMT + 08 : 00 (hh:mm)
Synchronize Time:	6 hour

(Figure 1)

Step 2: You can know the statuses of Current Time on [System Information], (see Figure 2).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	DHCP Client
IP Address:	192.168.50.4	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:8a:43

System Information			
Firmware Version:	1009010	Update Date:	unknow
System Up Time:	0 day(s) 0 hour(s) 3 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 3 minute(s)		
Current Time:	2010-09-13 20:23		

Register Information			
Phone 1			
Realm 1 Status:	Registered	Number:	8061
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	

(Figure 2)

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Example 2: DST Setting

Step 1: On [SNTP Setting], set [Active Enable, Daylight Saving Time: Enable, DST Offset: +1 hour, DST Start Date: Aug, week of Month, Last Week Mon, 01, DST End Date: Oct, Week of Month, Last Week, Fri, 18] (see Figure 3).

SNTP Setting

Active:	Enable
Primary Server:	north-america.pool.ntp.org
Secondary Server:	asia.pool.ntp.org
Time Zone:	GMT + 08 : 15 (hh:mm)
synchronize Time:	1 min.
Daylight Saving Time:	Enable
DST Offset:	+ 1 hour
DST Start Date:	Aug Week of Month 02 Last Week Mon 01
DST End Date:	Oct Week of Month 03 Last Week Fri 18
Submit	Reset

(Figure 3)

Step 2: You can know the statuses of Current Time of Enabling Daylight Saving Time on [System Information], (see Figure 4).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	DHCP Client
IP Address:	192.168.50.4	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:8a:43
System Information			
Firmware Version:	1009010	Update Date:	unknow
System Up Time:	0 day(s) 0 hour(s) 3 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 3 minute(s)		
Current Time:	2010-09-13 20:23		
Register Information			
Phone 1			
Realm 1 Status:	Registered	Number:	8061
Realm 2 Status:	Not Registered	Number:	
Realm 3 Status:	Not Registered	Number:	
Realm 4 Status:	Not Registered	Number:	
Realm 5 Status:	Not Registered	Number:	



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(Figure 4)

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4. NAT

Provide functions of [LAN, DMZ and MAC Clone, Virutal Server].

4.1 LAN

4.1.1 Functions

LAN provides functions to set LAN Port including DHCP Server.

4.1.2 Instruction

LAN Setting

Device Active:	<input type="button" value="Router"/>
LAN IP Address:	<input type="text" value="192.168.123.1"/>
LAN MAC Address:	<input type="text" value="00:2a:10:12:08:b0"/>
Enable DHCP Server:	<input type="button" value="Enable"/>
IP Address:	<input type="text" value="150"/> ~ <input type="text" value="200"/> (Start ~ End, 1~254)
Lease Time:	<input type="text" value="1440"/> (10~17820 Minute)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Colume	說 明
LAN Mode	Default: NAT. Set the routing function of LAN Port. Provides options: Bridge, NAT. Bridge: When you set Bridge, [WAN & LAN] Port are all in the same district. NAT: When you set NAT, [WAN & LAN] Port are in the different district. LAN Port will be a DHCP as you Enable DHCP Server Active function.
LAN IP Address	Default: 192.168.123.1. The input type is xxx.xxx.xxx.xxx of 15 bytes.
LAN MAC ID	Shows MAD ID address.
DHCP Server Active	Default: Enable. When you Disable this function, LAN Port will not be a DHCP Server. Provides options: Enable, Disable.
Assgin IP	Default: 150~200. Set the IP address period of DHCP Server. This colume can only input numbers; maximum length is 3 bytes with the range of 1~254.
Lease Time	Default: 1440 Minute. These columes can only input numbers; maximum length is 5 bytes with the range of 10 ~ 17820 Minute.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

4.1.3 Operate Instruction

Example 1: DHCP Server

Setp 1: On [LAN Setting], set [LAN Mode: NAT, LAN IP Address: 192.168.123.1, DHCP Server Active: Enable, Assign IP: 51~100, Lease Time: 1440], (see Figure 1).

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LAN Setting

Device Active:	<input type="text" value="Router"/>
LAN IP Address:	<input type="text" value="192.168.123.1"/>
LAN MAC Address:	<input type="text" value="00:2a:10:12:08:b0"/>
Enable DHCP Server:	<input type="text" value="Enable"/>
IP Address:	<input type="text" value="150"/> ~ <input type="text" value="200"/> (Start ~ End, 1~254)
Lease Time:	<input type="text" value="1440"/> (10~17820 Minute)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

(Figure 1)

Example 2: LAN Mode: Bridge

Step 1: On [LAN Setting], set [LAN Mode: Bridge],(see Figure 2) °

LAN Mode:	<input type="text" value="Bridge"/>
-----------	-------------------------------------

(Figure 2)

Step 2: On [System Information], you will not see the information of [LAN Port], (see Figure 3).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	PPPoE Client
IP Address:	114.45.139.64	Subnet Mask:	255.0.0.0
Default Gateway:	168.95.98.254	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:8a:43

System Information			
Firmware Version:	1009010	Update Date:	
System Up Time:	0 day(s) 0 hour(s) 0 minute(s)		
Network Link Up Time:	0 day(s) 0 hour(s) 0 minute(s)		
Current Time:	2010-09-13 20:00		

(Figure 3)

4.2 DMZ & MAC Clone

4.2.1 Functions

DMZ & MAC Clone provides functions to set DMZ and MAC Clone.

4.2.2 Instruction

DMZ and MAC Clone Setting

DMZ Type:	Disable ▾
Assigned IP Address:	0.0.0.0
MAC Clone Type:	Disable ▾
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

(Figure 1)

Colume	Instruction
DMZ Type	Default: Disable. When you Enable this function, all the incoming packages will transfer to the assigned IP address. Provides options: Disable, Enable.
Assigned IP Address	Default: 192.168.123.150. The assigned IP address type is xxx.xxx.xxx.xxx of maximum 15 bytes.
MAC Clone Type	Default: Disable. When you Enable this function, the device will clone the MAC ID of PC through LAN Port. Provides options: Disable, Enable.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

4.2.3 Operate Instruction

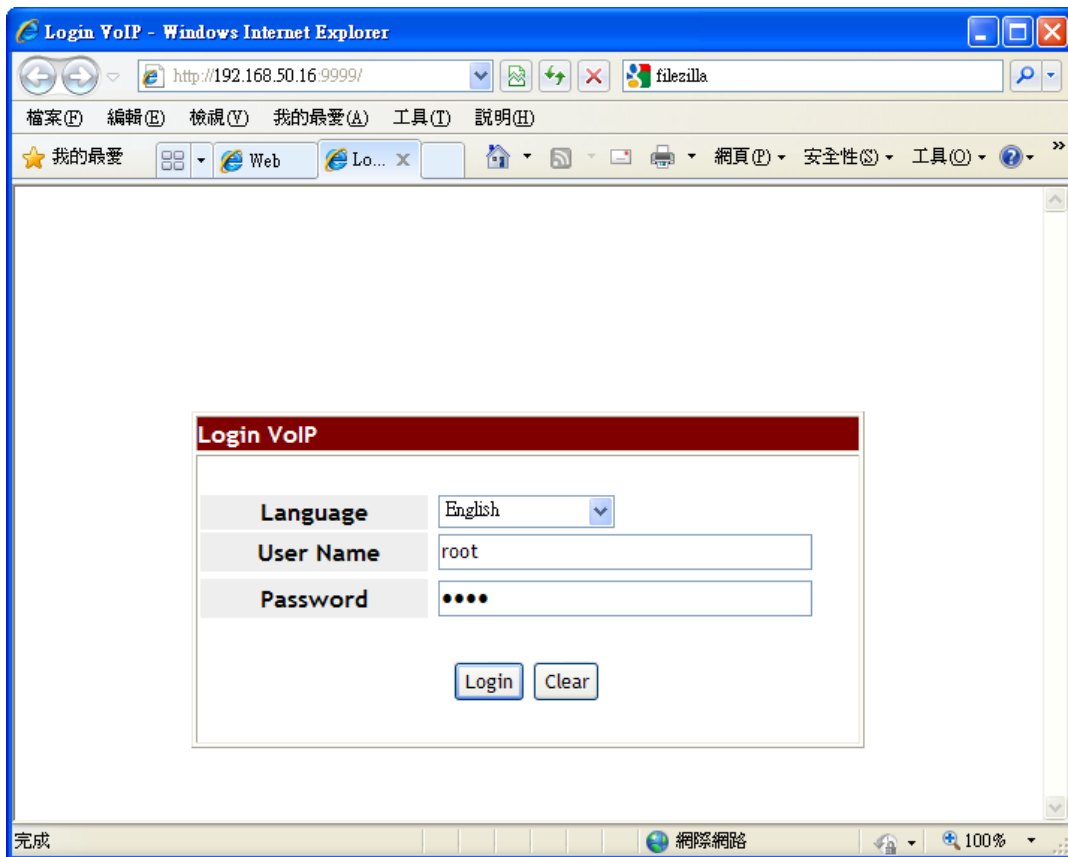
Example 1: DMZ

Step 1: On [DMZ and MAC Clone Setting], [DMZ Type: Enable, Assigned IP Address: 192.168.123.150], (see Figure 1).

DMZ Type:	Enable ▾
Assigned IP Address:	192.168.123.150

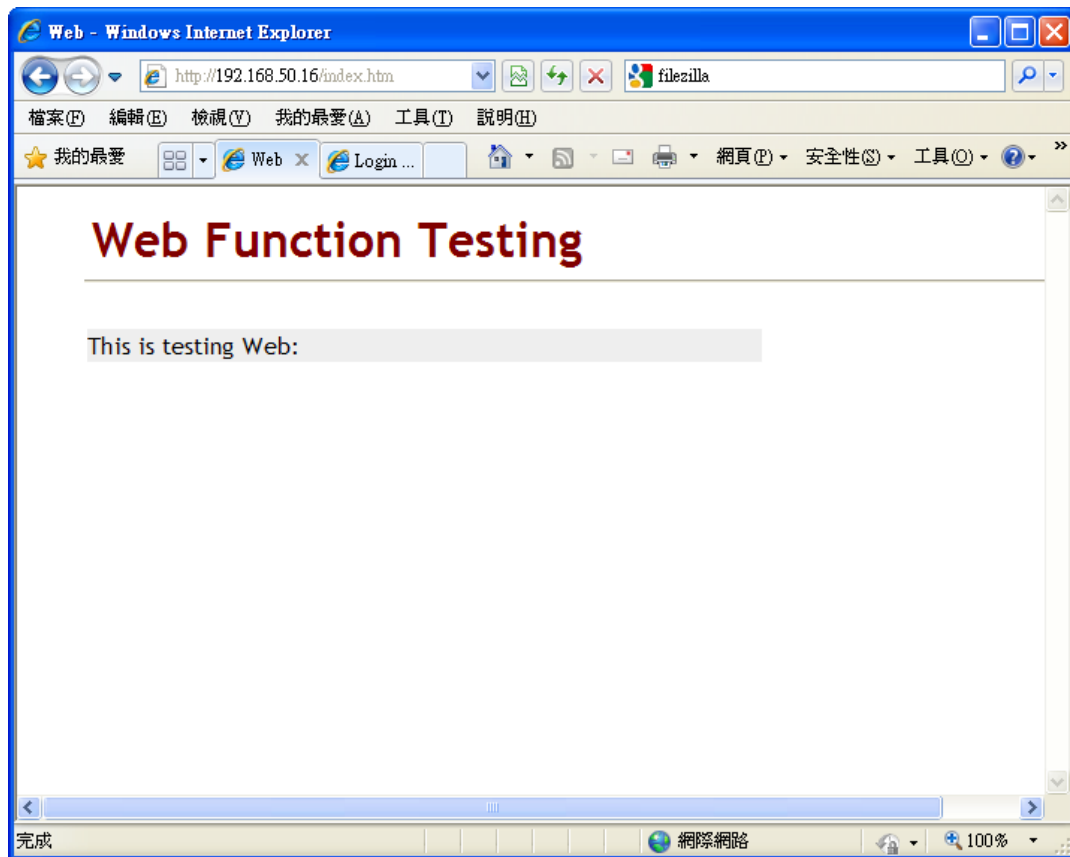
(Figure 1)

Step 2: Please connect to [http://192.168.50.16:9999] using another PC, there will shows [Login VoIP] webpage, (see Figure 2).



(Figure2)

Step 3: Please connect to [http://192.168.50.16], there will shows [Web Function Testing] webpage, (see Figure3).



(Figure 3)

Example 2: MAC Clone

Step 1: Please check the setting of [LAN Mode: NAT] on [LAN Setting], (see Figure 4)。

LAN Setting

Device Active:	<input type="button" value="Router"/>
LAN IP Address:	<input type="text" value="192.168.123.1"/>
LAN MAC Address:	<input type="text" value="00:2a:10:12:08:b0"/>
Enable DHCP Server:	<input type="button" value="Enable"/>
IP Address:	<input type="text" value="150"/> ~ <input type="text" value="200"/> (Start ~ End, 1~254)
Lease Time:	<input type="text" value="1440"/> (10~17820 Minute)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

(Figure 4)

Step 2: Connect PC with LAN Port of the device and connect <http://192.168.123.1:9999> to check the [MAC ID] on [System Information], (see Figure 5).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	DHCP Client
IP Address:	192.168.50.19	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:01:a8:02:89:a0

LAN Port			
IP:	192.168.123.1	MAC ID:	00:02:aa:12:34:cd

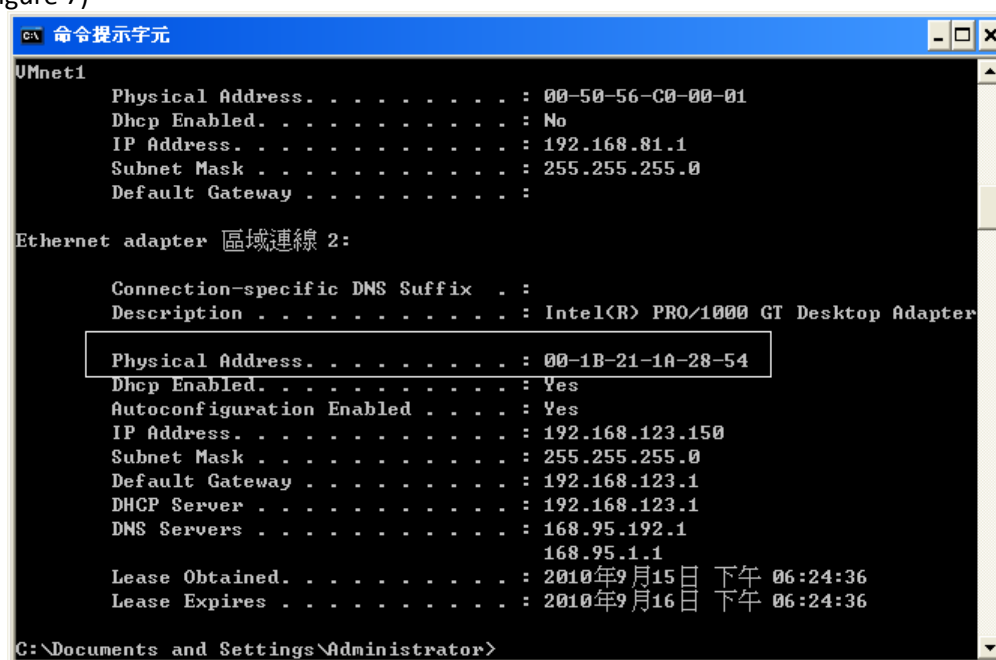
(Figure 5)

Step 3: On [DMZ and MAC Clone Setting], set [MAC Clone Type: Enable], (see Figure 6) °

MAC Clone Type:

(Figure 6)

Step 4: Check the MAC ID of the PC on DOS, its MAC ID is [Physical Address: 00-1B-21-1A-28-54] ID], (see Figure 7)



```
命令提示字元
UMnet1
Physical Address. . . . . : 00-50-56-C0-00-01
Dhcp Enabled. . . . . : No
IP Address. . . . . : 192.168.81.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter 区域連線 2:

Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 GT Desktop Adapter

Physical Address. . . . . : 00-1B-21-1A-28-54
Dhcp Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IP Address. . . . . : 192.168.123.150
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.123.1
DHCP Server . . . . . : 192.168.123.1
DNS Servers . . . . . : 168.95.192.1
                        168.95.1.1
Lease Obtained. . . . . : 2010年9月15日 下午 06:24:36
Lease Expires . . . . . : 2010年9月16日 下午 06:24:36

C:\Documents and Settings\Administrator>
```

(Figure 7)

Step 5: Enter the <http://192.168.123.1:9999> by LAN Port, the device's [MAC ID: 00:1b:21:1a:28:54] will change to PC's MAC ID, (see Figure 8).

System Information

WAN Port			
Link Status:	100M FULL/Auto	Type:	DHCP Client
IP Address:	192.168.50.20	Subnet Mask:	255.255.255.0
Default Gateway:	192.168.50.1	DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1	MAC ID:	00:1b:21:1a:28:54
LAN Port			
IP:	192.168.123.1	MAC ID:	00:02:aa:12:34:cd

(Figure 8)

4.2.4 Note

If you want to restore the original MAC ID of the device, please use Restore Default setting function.

4.3 Virtual Server

4.3.1 Functions

Virtual Server provides 12 sets of Virtual Server information.

4.3.2 Instruction

Virtual Server Setting

Index	Enable	Protocol	Internet Port	Extranet Port	Server IP	Action
1	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
2	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
3	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
4	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
5	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
6	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
7	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
8	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
9	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
10	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
11	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>
12	<input type="checkbox"/>	TCP ▼	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/>	<button>delete</button>

Column	Instruction
Index	Shows the number of set.
Enable	Default: Not use. If you select it, the set will be start.
Protocol	Default: TCP. Select the Protocol: Tcp or Udp.
Internet Port	Shows the address of Internet Port. Set the Internet Port address of Start and End. This column can only input numbers; maximum length is 5 bytes with the range of 1~65533. If you want to set fixed Port, you should input the same number for the two columns. If you want to set a period of Port, the left column is Start Port and the right column is End Port.
Extranet Port	Shows the address of Extranet Port. Set the Extranet Port address of Start and End. This column can only input numbers; maximum length is 5 bytes with the range of 1~65533. If you want to set fixed Port, you should input the same number for the two columns. If you want to set a period of Port, the left column is Start Port and the right column is End Port.

Server IP	Set the Internal Server IP address. The input type is xxx.xxx.xxx.xxx of 15 bytes.
Action [Botton]	Provides [Delete] button to erase the datas.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

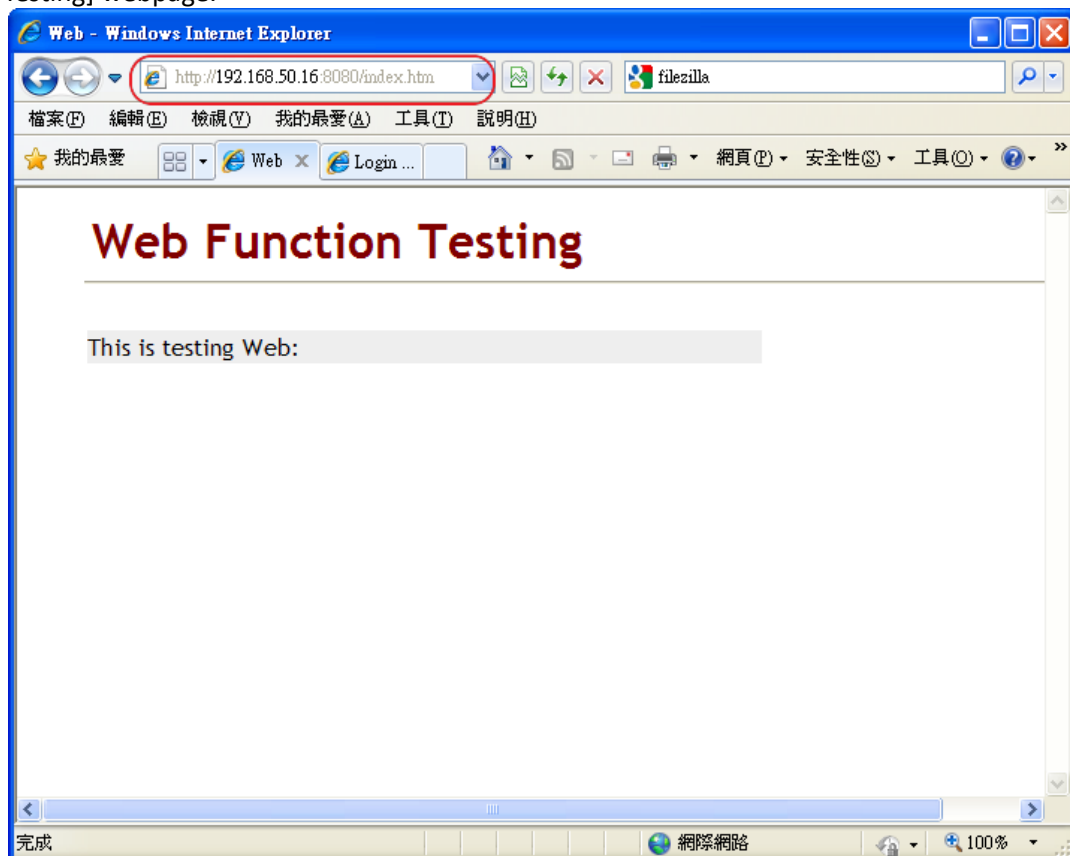
4.3.3 Operate Instruction

Step 1: On [Vitrual Server Setting], set [Index: 1, Enable: select, Protocol: TCP, Internet Port: 80~80, Extranet Port: 8080~8080, Server IP: 192.168.123.150; Index: 2, Enable: select, Protocol: TCP, Internet Port: 600~600, Extranet Port: 600~600, Server IP: 192.168.123.45], (see Figure 1).

Index	Enable	Protocol	Internet Port	Extranet Port	Server IP	Action
1	<input checked="" type="checkbox"/>	TCP	80 ~ 80	8080 ~ 8080	192.168.123.150	delete
2	<input checked="" type="checkbox"/>	TCP	600 ~ 600	600 ~ 600	192.168.123.15	delete

(Figure 1)

Step 2: Please connect to [http://192.168.50.16:8080] using another PC, there will show [Web Function Testing] webpage.



(Figure 2)

5. SIP

Provides functions of [Service, Code, Advanced, STUN].

5.1 Service

5.1.1 Functions

Service provides 5 SIP Register accounts.

5.1.2 Instruction

Service Domain Setting

Realm No.:

Active:	<input type="text" value="Disable"/>
Display Name:	<input type="text"/>
Phone Number:	<input type="text"/>
Authentication ID:	<input type="text"/>
Authentication Password:	<input type="text"/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="text" value="Disable"/>

Columne	Instruction
Realm No.	Default: Realm 1. Please press "1*" and hang up the phone when transfer to the 1 st register number. You can learn the details on [Phone – Dial PlanSetting]->[Realm 1~5 prefix]. Provides options: 1~5.
Active	Default: Disable. When you Enable this function, system will start to register the SIP Register Server. Provides options: Disable, Enable.
Display Name	Display name will be show on LCD as your device is Phone or Phone+O. This columne can input numbers and strings; maximum length is 31 bytes.
Phone Number	Set the assigned Phone Number from SIP Register Server. This columne can input numbers and strings; maximum length is 31 bytes.
Authentication ID	Set the SIP Register ID. This columne can input numbers and strings; maximum length is 31 bytes.
Authentication Password	Set the SIP Register Password. This columne can input numbers and strings; maximum length is 47 bytes.
Domain Server	Set Domain Server. This columne can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes. If the Domain Server has Port Number, please add it at the end of Domain Name, ex: nat.voiptalk.org:5065.
Proxy Server	Set Proxy Server. This columne can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes. If the Domain Server has Port Number, please

	add it at the end of Domain Name, ex: nat.voiptalk.org:5065.
Outbound Proxy	Set Outbound Proxy. This column can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes. If the Domain Server has Port Number, please add it at the end of Domain Name, ex: nat.voiptalk.org:5065.
Subscribe of MWI	Default: Disable. When Enable this function, system will send [Subscribe of MVI] message. Please confirm this function supported by your SIP Register Server.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

5.1.3 Operate Instruction

Example 1: Not register at Port 5060

Step 1: On [Service Domain Setting], [Active: Enable, Display Name: 22061, Phone Number: 22061, Authentication ID: 22061, Authentication Password: test, Domain Server: 61.62.236.71:6000, Proxy Server: 61.62.236.71:6000 , Subscribe of MWI: Disable], (see Figure 1).

Realm No.:

Active:	<input type="button" value="Enable"/>
Display Name:	<input type="text" value="22061"/>
Phone Number:	<input type="text" value="22061"/>
Authentication ID:	<input type="text" value="22061"/>
Authentication Password:	<input type="password" value="•••••"/>
Domain Server:	<input type="text" value="61.62.236.71:6000"/>
Proxy Server:	<input type="text" value="61.62.236.71:6000"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="button" value="Disable"/>

(Figure 1)

Step 2: Back to [Service Domain Setting], the register status of that account is [Information].

Example 2: Enable Subscribe for MWI

step 1: On [Service Domain Setting], set [Active: Enable, Display Name: 22061, Phone Number: 22061, Authentication ID: 22061, Authentication Password: test, Domain Server: 61.62.236.71:6000, Proxy Server: 61.62.236.71:6000, Subscribe for MWI: Enable], (see Figure 2).

Realm No.:

Active:	<input type="text" value="Enable"/>
Display Name:	<input type="text" value="2206"/>
Phone Number:	<input type="text" value="2206"/>
Authentication ID:	<input type="text" value="2206"/>
Authentication Password:	<input type="password" value="....."/>
Domain Server:	<input type="text" value="61.62.236.71:6000"/>
Proxy Server:	<input type="text" value="61.62.236.71:6000"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="text" value="Enable"/>

(Figure 2)

5.2 Codec

5.2.1 Functions

Codec provides functions to set priority of codec, RTP Package Length, and Codec ID Value.

iLBC & G.723 cannot work in the mean time, they have exculsive verion.

5.2.2 Instruction

Figure 1: G.723 Codec

Codec Setting

Disabled Codecs		Enabled Codecs
G.726 - 16 G.726 - 24 G.726 - 32 G.726 - 40 G.723	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">>></div> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"><<</div>	G.711 u-law G.711 a-law G.729

G.711 and G.729:	20	ms
G.723:	60	ms
G.723 5.3K:	Disable	
Silence Suppression (VAD):	Disable	
Echo Cancel :	Disable	

Codec Type			ID Value
G726-16:	Default	23	(95~127)
G726-24:	Default	22	(95~127)
G726-32:	Default	2	(95~127)
G726-40:	Default	21	(95~127)
RFC 2833:	Default	101	(95~127)

Submit

Reset

(Figure 1)

Colume	Instruction
Disabled Codecs	Default: G.726.16, G.726.24, G.726.32, G.726.40. Provides not using Codec items.
>> <<	>>: Move to Enable Codec area. <<: Move to Disable Codec area.
Enabled Codec	Default: G.711 u-law, G.711 a-law, G.723, G.729. Provides using Codec items. The priority is according to the order of the screen.
G.711 & G.729	Default: 20 ms. Set the RTP Package Length of G.711 & G.729. Provides options: 10, 20, 30, 40, 50, 60, 70, 80, 90(ms).

G.723	Default: 30 ms ; Set the RTP Package Length of G.723. Provides options: 30, 60, 90(ms).
G.723 5.3K	Default: Disable. Set G.723 5.3K. Provides options: Disable, Enable.
Silence Suppression (VAD)	Default: Disable. Set Silence Suppression (VAD). Provides options: Disable, Enable. When VAD detects that the users are in talking , Codec will send out messages to nertwork. Theoretically, there is only one user talking and another one is listening in the same time, the listening one don't send out any voice, so VAD will send the messages of the talking one to network, therefore, VAD can lower amount of message under 1/3. Provides options: Disable, Enable.
Echo Cancel	Default: Disable. Set Echo Cancel. Provides options: Disable, Enable.
Coedec Type	Set the information of Codec Id
G726-16 ID	Default: 23. When you set Customer, you can modify the Codec ID Value. This columne can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer. *: Please select Customer, before you modify Codec ID Value.
G726-24 ID	Default: 22. This columne can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
G726-32 ID	Default: 2. This columne can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
G726-40 ID	Default: 21. This columne can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
RFC 2833 ID	Default: 101. This columne can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

Figure 2: iLBC Codec

Codec Setting

Disabled Codecs		Enabled Codecs
G.726 - 16 G.726 - 24 G.726 - 32 G.726 - 40 iLBC	<div>>></div> <div><<</div>	G.711 u-law G.711 a-law G.729

G.711 and G.729: ms

iLBC:

Silence Suppression (VAD):

Echo Cancel :

Codec Type	ID Value
G726-16:	Default <input type="text" value="23"/> (95~127)
G726-24:	Default <input type="text" value="22"/> (95~127)
G726-32:	Default <input type="text" value="2"/> (95~127)
G726-40:	Default <input type="text" value="21"/> (95~127)
RFC 2833:	Default <input type="text" value="101"/> (95~127)
iLBC:	Default <input type="text" value="97"/> (95~127)

Submit

Reset

(Figure 2)

Columne	Instruction
Disabled Codecs	Default: G.726.16, G.726.24, G.726.32, G.726.40. Provides not using Codec items.
>> <<	>>: Move to Enable Codec area. <<: Move to Disable Codec area.
Enabled Codec	Default: G.711 u-law, G.711 a-law, G.723, G.729. Provides using Codec items. The priority is according to the order of the screen.
G.711 & G.729	Default: 20 ms. Set the RTP Package Length of G.711 & G.729. Provides options: 10, 20, 30, 40, 50, 60, 70, 80, 90(ms).
iLBC	Default: 30 ms. Set the RTP Package Length of iLBC. Provides options: 20, 30(ms).
Silence Suppression (VAD)	Default: Disable. Set Silence Suppression (VAD). Provides options: Disable, Enable. When VAD detects that the users are in talking , Codec will send out messages to nertwork. Theoretically, there is only one user talking and another one is

	listening in the same time, the listening one don't send out any voice, so VAD will send the messages of the talking one to network, therefore, VAD can lower amount of message under 1/3. Provides options: Disable, Enable.
Echo Cancel	Default: Disable. Set Echo Cancel. Provides options: Disable, Enable.
Coedec Type	Set the information of Codec Id
G726-16 ID	Default: 23. When you set Customer, you can modify the Codec ID Value. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer. *: Please select Customer, before you modify Codec ID Value.
G726-24 ID	Default: 22. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
G726-32 ID	Default: 2. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
G726-40 ID	Default: 21. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
RFC 2833 ID	Default: 101. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
iLBC ID	Default: 97. Set RFC 2833 ID info. This colum can only input numbers; maximum length is 3 bytes with the range of 95~127. Provides options: Default, Customer.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

5.2.3 Operate Instruction

Example 1: Adjust Codec order

Step 1: On [Code Setting], set G.723, move mouse on [Disabled Codecs: G.723], then press [>>] button, G.723 will move to [Enabled Codecs] area at the top, (see Figure 1).

Disabled Codecs		Enabled Codecs
G.726 - 16 G.726 - 24 G.726 - 32 G.726 - 40	>> <<	G.723 G.729 G.711 u-law G.711 a-law

(Figure 1)

Example 2: Silenece Suppression (VAD): Enable

Step 1: On [Code Setting], set [Enable Codecs: G.711u-law, G.711 a-law, Silence Suppression (VAD): Enable], (see Figure 2).

Disabled Codecs		Enabled Codecs
G.729 G.726 - 16 G.726 - 24 G.726 - 32 G.726 - 40 iLBC	>> <<	G.711 u-law G.711 a-law

G.711 and G.729:	20	ms
iLBC:	30	
Silence Suppression (VAD):	Enable	
Echo Cancel :	Enable	

(Figure 2)

Step 3: Modify Codec ID

Step 1: On [Code Setting], set [RFC2833, Customer: 100], (see Figure 3).

Codec Type	ID Value
G726-16:	Default 23 (95~127)
G726-24:	Default 22 (95~127)
G726-32:	Default 2 (95~127)
G726-40:	Default 21 (95~127)
RFC 2833:	Customer 100 (95~127)

(Figure 3)

Note: If the other sides send you RFC-2833 not 100, your system will modify it to adjust the other side to communicate.

5.3 Advanced

5.3.1 Functions

Advanced provides functions to set other SIP settings including SIP Expire Time, SIP/RTP Port, QoS, Register SIP Expire Time, Use DNS SRV, DTMF, User=Phone, PRACK.

5.3.2 Instruction

SIP - Advanced Setting

SIP Expire Time:	<input type="text" value="60"/>	(60~86400 sec, 0=define by Server)
SIP Expire Time Mode:	General <input type="button" value="v"/>	(General:expire time-[expire time/6])
SIP Register Retry Interval:	<input type="text" value="64"/>	(5~3600sec)
SIP T1:	<input type="text" value="500"/>	(ms)
SIP T2:	<input type="text" value="4000"/>	(ms)
SIP Timer B, F, H:	<input type="text" value="32000"/>	(ms)
SIP Port Range of Phone 1:	<input type="text" value="10000"/> ~ <input type="text" value="10999"/>	(1024~40000)
RTP Port Range of Phone 1:	<input type="text" value="20000"/> ~ <input type="text" value="21999"/>	(1024~40000)
Hold by RFC:	Disable <input type="button" value="v"/>	
DTMF Mode:	RFC 2833 <input type="button" value="v"/>	
RPort:	Enable <input type="button" value="v"/>	
Voice QoS (Diff-Serv):	<input type="text" value="40"/>	(0~63)
SIP QoS (Diff-Serv):	<input type="text" value="40"/>	(0~63)
Use DNS SRV:	Disable <input type="button" value="v"/>	
Send Keep Alives Packet:	Disable <input type="button" value="v"/>	
Keep Alives Period:	<input type="text" value="60"/>	(15~250 sec)
Jitter Buffer:	<input type="text" value="1"/>	(0~32 packets)
SIP Server type:	General <input type="button" value="v"/>	
Add URL user=phone (Register):	Disable <input type="button" value="v"/>	
Add URL user=phone (Invite):	Disable <input type="button" value="v"/>	
Send SIP PRACK to Proxy:	Disable <input type="button" value="v"/>	

(Figure 1)

Columne	Instruction
SIP Expire Time	<p>Default: 60.</p> <p>When this function is set to 0, the SIP Expire Time is according to the default of Server.</p> <p>This columne can only input numbers; maximum length is 5 bytes with the range of 15~86400 (sec).</p>
SIP Expire Time Mode	<p>Default: General.</p> <p>Provides options: General, 1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10.</p> <p>*This function must be supported by Server.</p> <p>The count formula of SIP Expire Time:</p>

	<p>General: SIP Expire Time-[(SIP Expire Time/30)*6] as SIP Expire Time > 60 sec, if SIP Expire Time < 60 sec, the SIP Expire Time subtract 5 sec uniformly.</p> <p>1/2: SIP Expire Time * 1/2.</p> <p>2/3: SIP Expire Time * 2/3.</p> <p>3/4: SIP Expire Time * 3/4.</p> <p>4/5: SIP Expire Time * 4/5.</p> <p>5/6: SIP Expire Time * 5/6.</p> <p>6/7: SIP Expire Time * 6/7.</p> <p>7/8: SIP Expire Time * 7/8.</p> <p>8/9: SIP Expire Time * 8/9.</p> <p>9/10: SIP Expire Time * 9/10.</p>
SIP Register Retry Interval	<p>Default: 64 sec.</p> <p>Set the period of registering SIP Server again if your system fails to register SIP Server.</p> <p>This column can only input numbers; maximum length is 4 bytes with the range of 5~3600 (sec).</p>
SIP T1	<p>Default: 500 ms.</p> <p>Set round-trip time (RTP) estimate.</p> <p>This column can only input numbers; maximum length is 4 bytes with the range of 500~2000.</p> <p>*This function must be supported by Server.</p>
SIP T2	<p>Default: 4000 ms.</p> <p>Set the maximum retransmit interval for non-INVITE requests and INVITE responses.</p> <p>This column can only input numbers; maximum length is 5 bytes with the range of 4000~16000.</p> <p>*This function must be supported by Server.</p>
SIP Timer B, F, H	<p>Default: 32000 ms.</p> <p>Set the maximum retransmit interval for non-INVITE requests and INVITE responses.</p> <p>This column can only input numbers; maximum length is 6 bytes with the range of 8000~128000.</p> <p>B: 64 * SIP T1; INVITE transaction timeout timer °</p> <p>F: 64 * SIP T1; non-INVITE transaction timeout timer °</p> <p>H: 64 * SIP T1, Wait time for ACK receipt.</p> <p>*This function must be supported by Server.</p>
SIP Port Range of phone 1	<p>Default: 5060~5060.</p> <p>Set the Start and End SIP Port Range of phone 1.</p> <p>This column can only input numbers; maximum length is 5 bytes with the range of 1024~40000. °</p> <p>If you want to set a fixed port, please set the same value of Start and End Port.</p> <p>If you want to set a period, the left column is Start Port, the right Port is End Port.</p>
RTP Port Range of phone 1	<p>Default: 20000~20000.</p> <p>Set the Start and End RTP Port Range of phone 1.</p> <p>This column can only input numbers; maximum length is 5 bytes with the range of 1024~40000.</p> <p>If you want to set a fixed port, please set the same value of Start and End Port.</p> <p>If you want to set a period, the left column is Start Port, the right Port is End Port.</p>

Hold by RFC	<p>Default: Disable.</p> <p>Set Hold (define by RFC).</p> <p>When this function is on, the information of [Connection Information (c): IN IP4 xxx.xxx.xxx.xxx] will change IP to the device of executing the function.</p> <p>Provides options: Disable, Type1 (Sendoloy), Type2 (inactvie).</p>
DTMF Mode	<p>Default: RFC 2833.</p> <p>InBand: When you input key information, the [Ethereal] will not show it.</p> <p>RFC2833: When you input key information, the [Ethereal] will show [RTP Event].</p> <p>SIP Info: When you input key information, the [Ethereal] will show [Request: Info].</p> <p>Provides options: InBand, RFC2833, SIP Info.</p>
RPort	<p>Default: Disable.</p> <p>Set RPort function.</p> <p>When this function is on, the [Rport] message will add in [Message Header].</p> <p>Provides options: Disable, Enable.</p> <p>*This function must be supported by Server.</p>
Voice QoS (Diff-Serv)	<p>Default: 40.</p> <p>This colum can only input numbers; maximum length is 2 bytes with the range of 0~63.</p>
SIP QoS (Diff-Serv)	<p>Default: 40.</p> <p>This colum can only input numbers; maximum length is 2 bytes with the range of 0~63.</p>
Use DNS SRV	<p>Default: Disable.</p> <p>When this function is on, the package will show [DNS, Standard query SRV_sip_upd.xxx.xxx.xxx].</p> <p>Provides options: Disable, Enable.</p>
Send Keep Alives Packet	<p>Default: Disable.</p> <p>When this function is on and system is in NAT, system will send a package to Server as every period of [Send Keep Alives Packet] past keep the traffic flowing without obstruction the.</p> <p>Provides options: Disable, Enable.</p>
Keep Alives Period	<p>Default: 60.</p> <p>This colum can only input numbers; maximum length is 3 bytes with the range 15~250.</p>
Jitter Buffer	<p>Default: 1.</p> <p>Set Jitter Buffer.</p> <p>In VoIP system, the time of every voice package arrives to destination will affect by Network Delay, therefore, Jitter Buffer is used in destination to modify the order of packages and adjust the time of Voice Playout Delay, this function will raise the voice quality.</p> <p>This colum can only input numbers; maximum length is 3 bytes with the range 0~32.</p>
SIP Server Type	<p>Default: General.</p> <p>Set the type of SIP Server.</p> <p>In accordance with different Servers system will adjust them to work.</p> <p>Provides options: General, Asterisk, BroadWorks, Nortel, Xener, Vodtel, SKTelink.</p>
Add URL user=phone (Register)	<p>Default: Disable.</p> <p>When this function is on, the Register Header will add "user=phone" message in Register packages.</p>

	Provides options: Disable, Enable. *This function must be supported by Server.
Add URL user=phone (Invite)	Default: Disable. When this function is on, the Invite Header will add "user=phone" message in Invite packages. Provides options: Disable, Enable. *This function must be supported by Server.
Send SIP PRACK of Proxy	Default: Disable. When this function is on, there will add "PRACK Header" messages. Provides options: Disable, Enable. *This function must be supported by Server.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

5.3.3 Operate Instuction

Example 1: SIP Expire Time

◆ SIP Expire Time: 60

Step 1: On [Service Domain Setting], set [Active: Enable, Display Name: 22061, Phoner Name: 22061, Authentication ID: 22061, Authentication Password: test, Domain Server: 61.62.236.71:6000, Proxy Server: 61.62.236.71:6000, Subscribe of MWI: off], (see Figure 1).

Service Domain Setting

Realm No.:

Active:	<input type="text" value="Enable"/>
Display Name:	<input type="text" value="22061"/>
Phone Number:	<input type="text" value="22061"/>
Authentication ID:	<input type="text" value="22061"/>
Authentication Password:	<input type="password" value="•••••"/>
Domain Server:	<input type="text" value="61.62.236.71:6000"/>
Proxy Server:	<input type="text" value="61.62.236.71:6000"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="text" value="Disable"/>

Status:

(Figure 1)

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time: 60], (see Figure 2).

SIP Expire Time: (15~86400 sec, 0=define by Server)

(Figure 2)

◆ SIP Expire Time: 0 (by server)

Step 1: On [Service Domain Setting], set [Active: Enable, Display Name: 22061, Phoner Name: 22061,

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

Authentication ID: 22061, Authentication Password: test, Domain Server: 61.62.236.71:6000, Proxy Server: 61.62.236.71:6000, Subscribe of MWI: off], (see Figure 1).

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time: 0 (the register time is defined by Server)], (see Figure 3).

SIP Expire Time: (15~86400 sec, 0=define by Server)
(Figure 3)

Step 3: System will register to Server according to the period that defined by Server. °

Example 2: Hold by RFC

◆ Hold by RFC: Disable

Step 1: On [SIP – Advanced Setting], [Hold by RFC: Disable], (see Figure 4).

Hold by RFC:
DTMF Mode:
RPort:
Type 2 (inactive)

(Figure 4)

◆ Hold by RFC: Type 1 (Sendonly)

Step 1: On [SIP – Advanced Setting], set [Hold by RFC: Type 1 (Sendonly)] (see Figure 5).

Hold by RFC:
DTMF Mode:
RPort:
Type 2 (inactive)

(Figure 5)

◆ Hold by RFC: Type 2 (inactive)

Step 1: On [SIP – Advanced Setting], set [Hold by RFC: Type2 (inactive)], (see Figure 6)

Hold by RFC:
DTMF Mode:
RPort:
Type 2 (inactive)

(Figure 6)

Example 3: DTMF Mode

◆ DTMF Mode: RFC2833

Step 1: On [SIP – Advanced Setting], set [DTMF Mode: RFC2833], (see Figure 7).

DTMF Mode:
RPort:
Voice QoS (Diff-Serv):
SIP Info

(Figure 7)

◆ DTMF Mode: InBand

Step 1: On [SIP – Advanced Setting], set [DTMF Mode: InBand], (see Figure 8).

DTMF Mode:
RPort:
Voice QoS (Diff-Serv):
SIP Info

(Figure 8)

◆ DTMF Mode: SIP Info

Step 1: On [SIP – Advanced Setting], set [DTMF Mode: SIP info], (see Figure 9).

DTMF Mode:	RFC 2833
RPort:	RFC 2833
Voice QoS (Diff-Serv):	Inband
	SIP Info

(Figure 9)

Example 4: RPort: Enable

Step 1: On [SIP – Advanced Setting], set [RPort: Enable], (see Figure 10).

RPort:	Enable
Voice QoS (Diff-Serv):	Disable
	Enable
SIP QoS (Diff-Serv):	40 (0~63)

(Figure 10)

Example 5: Voice & SIP QoS (Diff-Ser)

Step 1: On [SIP – Advanced Setting], set [Voice QoS (Diff-Serv): 50, SIP QoS (Diff-Serv): 40], (see Figure 11).

Voice QoS (Diff-Serv):	50 (0~63)
SIP QoS (Diff-Serv):	40 (0~63)

(Figure 11)

Example 6: Use DNS SRV

◆ User DNS SRV: Disable

Step 1: On [SIP – Advanced Setting], set [Use DNS SRV: Disable], (see Figure 12).

Use DNS SRV:	Enable
Send Keep Alives Packet:	Disable
	Enable
Keep Alives Period:	11 (1~250 sec)

(Figure 12)

◆ Use DNS SRV: Enable

Step 1: Please set the SIP account and Outbound Proxy must be fill with data as below, (sdee Figure 13).

Realm No.:	1
Active:	Enable
Display Name:	88061
Phone Number:	88061
Authentication ID:	88061
Authentication Password:	•••••
Domain Server:	voiptalk.org
Proxy Server:	voiptalk.org
Outbound Proxy:	nat.voiptalk.org
Subscribe for MWI:	Disable

(Figure 13)

Step 2: On [SIP – Advanced Setting], set [Use DNS SRV: Enable], (see Figure 14).

Use DNS SRV:	Enable
Send Keep Alives Packet:	Disable
Keep Alives Period:	150 (15~250 sec)

(Figure 14)

Example 7: Keep Alives Packet

Step 1: Please set the SIP account first, (see Figure 15).

Realm No.: 1

Active:	Enable
Display Name:	22061
Phone Number:	22061
Authentication ID:	22061
Authentication Password:	•••••
Domain Server:	61.62.236.71:6000
Proxy Server:	61.62.236.71:6000
Outbound Proxy:	
Subscribe for MWI:	Disable

(Figure 15)

Step 2: On [SIP – Advanced Setting], set [Send Keep Alives Packet: Enable, Keep Alives Period: 150], (see Figure 16).

Send Keep Alives Packet:	Enable
Keep Alives Period:	150 (15~250 sec)

(Figure 16)

Example 9: user=phone

◆ Add URL user=phone (Register)

Step 1: Please set the SIP account first, the SIP Server must support [user=phone].

Step 2: On [SIP – Advanced Setting], set [Add URL user=phone (Register): Enable], (see Figure 17).

Add URL user=phone (Register):	Disable
Add URL user=phone (Invite):	Disable
Send SIP PRACK to Proxy:	Enable

(Figure 17)

◆ Add URL user=phone (Invite)

Step 1: Please set the SIP account first, the SIP Server must support [user=phone].

Step 2: On [SIP – Advanced Setting], set [Add URL user=phone (Invite): Enable] (see Figure 18).

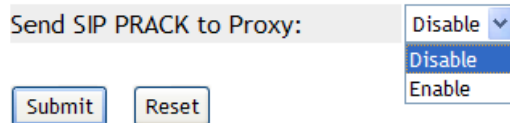
Add URL user=phone (Register):	Disable
Add URL user=phone (Invite):	Disable
Send SIP PRACK to Proxy:	Disable

(Figure 18)

Example 10: Send SIP PRACK of Proxy

Step 1: Please set the SIP account first, the SIP Server must support [PRACK].

Step 2: On [SIP – Advanced Setting], set [Send SIP PRACK to Proxy: Enable] (see Figure 19)。



Send SIP PRACK to Proxy: Disable Disable Enable

(Figure 19)

Example 11: SIP Expire Time Mode

◆ **General: Expire Time: 60 (the SIP Expire Time is 55 sec because it subtract 5)**

General (< 60): $\text{expire time} - 5 = 60 - 5 = 55$.

Step 1: Please set the SIP account first.

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time: 60], (see Figure 20).



SIP Expire Time: (60~86400 sec, 0=define by Server)

SIP Expire Time Mode: General (General:expire time-[expire time/6])

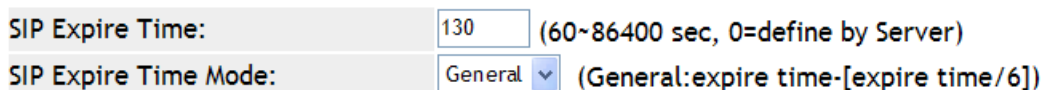
(Figure 20)

◆ **General: Expire Time: 130 (every 108 sec)**

General: $\text{expire time} - [\text{expire time}/6] = 130 - (130/6) = 108$.

Step 1: Please set the SIP account first.

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time: 130], (see Figure 21).



SIP Expire Time: (60~86400 sec, 0=define by Server)

SIP Expire Time Mode: General (General:expire time-[expire time/6])

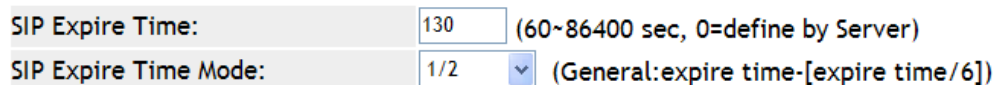
(Figure 21)

◆ **1/2: Expire Time: 130 (every 65 sec)**

$\text{Expire time} * 1/2 = 130 * 1/2 = 65$

Step 1: Please set the SIP account first.

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time: 130], (see Figure 22).



SIP Expire Time: (60~86400 sec, 0=define by Server)

SIP Expire Time Mode: 1/2 (General:expire time-[expire time/6])

(Figure 22)

Example 12: SIP T1, SIP T2, SIP Timer B, F, H

Step 1: Please set the SIP account first.

Step 2: On [SIP – Advanced Setting], set [SIP Expire Time:60, SIP Expire Time Mode: General, SIP Register Retry Interval: 60, SIP T1: 500, SIP T2: 4000, SIP Timer B, F, H: 32000], (see Figure 23).

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

SIP Expire Time:	<input type="text" value="60"/>	(60~86400 sec, 0=define by Server)
SIP Expire Time Mode:	<input type="text" value="General"/>	(General:expire time-[expire time/6])
SIP Register Retry Interval:	<input type="text" value="64"/>	(5~3600sec)
SIP T1:	<input type="text" value="500"/>	(ms)
SIP T2:	<input type="text" value="4000"/>	(ms)
SIP Timer B, F, H:	<input type="text" value="32000"/>	(ms)

(Figure 23)

Statement:

1. No.35, Register Expire Time.
2. No. 46, SIP Register Retry Interval.
3. No.36 ~ 45, SIP T1, T2 Timmer, SIP Timer B, F, H.

5.4 STUN

5.4.1 Functions

STUN provides functions to set STUN and Force.

5.4.2 Instruction

STUN Setting

STUN Active:	<input type="text" value="Disable"/>
STUN Server Name:	<input type="text" value="stun.xten.com"/>
STUN Port Number:	<input type="text" value="3478"/> (80~65535)
Force Active:	<input type="text" value="Disable"/>
Public IP address:	<input type="text"/>
Public Port Number:	<input type="text" value="5060"/> (80~65535)

Colume	Instruction
STUN Active	Default: Disable. When this function is on, STUN functions Enable. Provides options: Disable, Enable.
STUN Server Name	Default: stun.xten.com. This colume can input IP or Domain Name with the format of xxx.xxx.xxx.xxx; maximum length is 63 bytes.
STUN Port Number	Default: 3478. This colume can only input numbers; maximum length is 5 bytes with the range 80~65535.
Force Active	Default: Disable. When this function is on, the IP of [SIP infor] in [Ethereal] will replace by the assigned IP address. Provides options: Disable, Enable.
Public IP Address	Set Router's public IP address. This colume can only input IP with the format of xxx.xxx.xxx.xxx; maximum

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China

	length is 63 bytes.
Public Port Number	Default: 5060 Set Router's public Port. This column can only input numbers; maximum length is 5 bytes with the range 80~65535.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

5.4.3 Operate Instruction

Example 1: STUN

Step 1: Please set the SIP account first.

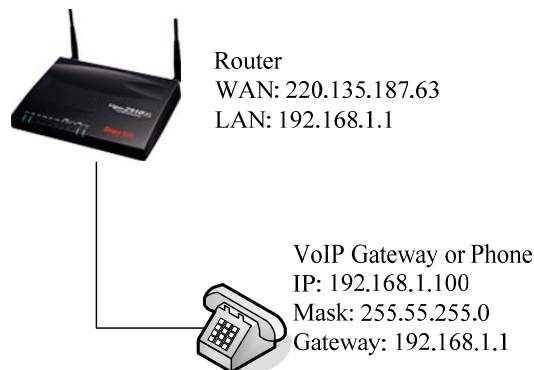
Step 2: On [STUN Setting], set [STUN Active: Enable, STUN Server Name: stun.xten.com, SUTN Port Number: 3478], (see Figure 2).

STUN Active:	Enable	
STUN Server Name:	stun.xten.com	
STUN Port Number:	3478	(80~65535)

(Figure 2)

Example 2: Fource

The structure Figure:



(Figure 3)

Step 1: Please set the SIP account first.

Step 2: On [STUN Setting], set [Force Active: Enable, Public IP Address: 118.169.209.251, Public Port Number: 7777], (see Figure 4) °

Force Active:	Enable	
Public IP address:	118.169.209.251	
Public Port Number:	7777	(80~65535)

(Figure 4)

6. Management

Provides [Status Log, Auto Config, Auto Update, New Firmware, Advanced, Passowrd, Tones, Default].

6.1 Status Log

6.1.1 Functions

Status Log provides the running status of the system.

6.1.2 Instruction

Status Log

Page: 1

Index	Content
0	<2010-09-14 10:35>Get Time from SNTP server, Succeed!
1	<2005-01-01 08:00>Get SNTP server IP=75.144.70.35
2	<2005-01-01 00:00>DHCP Got Ip=192.168.50.26
3	<2005-01-01 00:00>DHCP state 1=2
4	<2005-01-01 00:00>DHCP_SendRequest()
5	<2005-01-01 00:00>Rx OFFER from 192.168.50.1
6	<2005-01-01 00:00>DHCP_SendDiscover()
7	<2005-01-01 00:00>Enable DHCP_SERVER
8	<2005-01-01 00:00>Init Lan Interface!
9	<2005-01-01 00:00>Iface type : DHCP_CLIENT
10	<2005-01-01 00:00>Init Wan Interface!
11	<2005-01-01 00:00>Application starting ...
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

Get Status Log

Colume	Instruction
Page	Default: 1(Page 1). Provides options: 1~6.
Index	Shows index number 24 columes of every page.
Content	Shows the information of the system. <2010-09-14 10:35> Get Time from SNTP server, Succeed! <2010-09-14 10:35>: Shows the time of message. Get Time from SNTP server, Succeed! : Shows the content of message.

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Get Status Log [button]	Save the [Stauts Log] to a file, the name of the file is Syslog.log.
----------------------------	--

6.1.3 Operate Instruction

Example 1: Check Status Log

Step 1: On [Status Log], select the page you want to check, there will show the information of that, (see Figure 2).

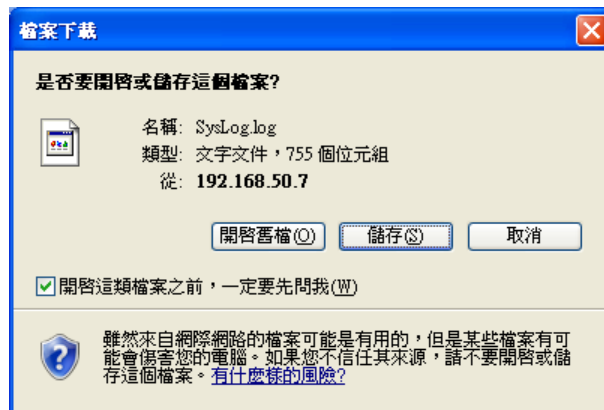
Status Log

Page:	1
Index	Content
0	<2010-09-14 10:35>Get Time from SNTP server, Succeed!
1	<2005-01-01 08:00>Get SNTP server IP=75.144.70.35
2	<2005-01-01 00:00>DHCP Got Ip=192.168.50.26
3	<2005-01-01 00:00>DHCP state 1=2
4	<2005-01-01 00:00>DHCP_SendRequest()
5	<2005-01-01 00:00>Rx OFFER from 192.168.50.1
6	<2005-01-01 00:00>DHCP_SendDiscover()
7	<2005-01-01 00:00>Enable DHCP_SERVER
8	<2005-01-01 00:00>Init Lan Interface!
9	<2005-01-01 00:00>Iface type : DHCP_CLIENT
10	<2005-01-01 00:00>Init Wan Interface!
11	<2005-01-01 00:00>Application starting ...
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
Get Status Log	

(Figure 2)

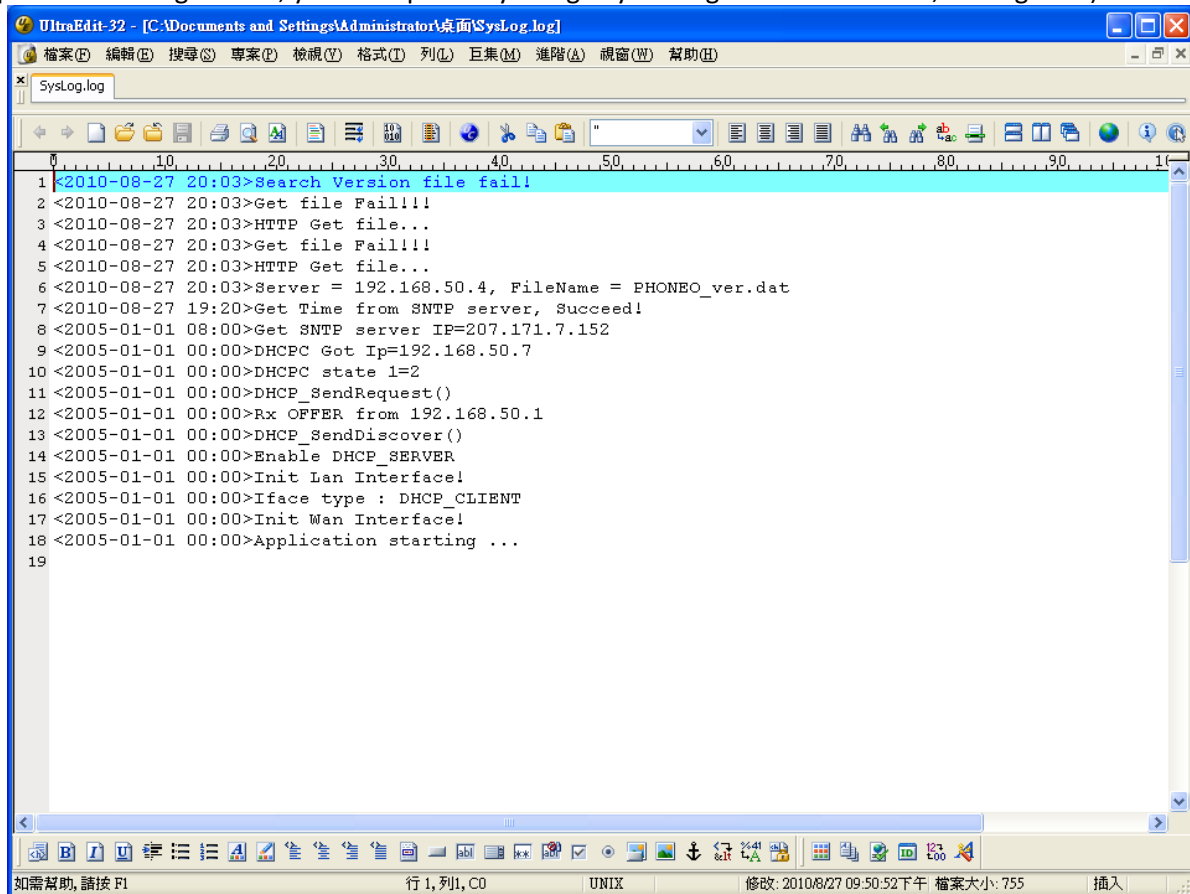
Example 2: Save Status Log to a file

Step 1: On [Status Log], click [Get Status Log] button, you will see the [Opening: Syslog.log.] page, please click the [save] button, (se Figure 3).



(Figure 3)

Step 2: After saving the file, you can open it by using any writing edition softwares, see Figure 4).



(Figure 4)

6.2 Auto Configuration

6.2.1 Funtions

Provides the types of HTTP, FTP, HTTP to update the configuration.

6.2.2 Instruction

Auto Configuration Setting

Type:	<input type="button" value="Disable"/>
2 Steps Configuration:	<input type="button" value="Disable"/>
Server Auto Discover:	<input type="button" value="Disable"/>
Scheduling:	<input type="button" value="Disable"/>
TFTP Server:	<input type="text"/>
TFTP File Path:	<input type="text"/> Exp. download/
HTTP Server:	<input type="text"/> Exp. 60.35.187.30
HTTP File Path:	<input type="text"/> Exp. download/
FTP Server:	<input type="text"/> Exp. 60.35.17.1
FTP User Name:	<input type="text"/>
FTP Password:	<input type="text"/>
FTP File Path:	<input type="text"/> Exp. file/load/

Next Configuration time:

Colume	Instruction
Type	Default: Disable. When this function is on, system will download the MACID.dat from the designate Server. Provides options: Disable, TFTP, FTP and HTTP.
2 Steps configuration	Default: Disable. Set 2 Steps configuration, get the common settings first, then get the SIP accounts and passwords second. Provides options: Disable, Enable. *This function must be supported by Server.
Server auto discover	Default: Disable. DHCP TFTP Option 66 (TFTP): DHCP Server will offer the Option 66 Server IP address into the colume of system [TFTP Server] when it assigns IP. Broadcasting: Discovering the Server by broadcasting, the Server will send the information of Type and Server to the system, it will infill these information to the corresponding columes. Provides options: Disable, DHCP TFTP Option 66 (TFTP), Broadcasting. *This function must be supported by Server.

Scheduling	Default: Disable. Execute the Configuration regularly. When this function is on, system will check the Configuration Server by [Next Config Time]. Provides options: Disable, Enable.
TFTP Server	This column can only input IP with the format of xxx.xxx.xxx.xxx; maximum length is 15 bytes.
TFTP Path	This column can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.
HTTP Server	This column can input IP or Domain Name; maximum length is 63 bytes.
HTTP Path	This column can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.
FTP Server	This column can input IP or Domain Name; maximum length is 63 bytes.
FTP Username	This column can input IP or Domain Name; maximum length is 63 bytes.
FTP Password	This column can input IP or Domain Name; maximum length is 63 bytes.
FTP File Path	This column can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.
Next config time	System will check the Configuration Server when the Next config time is up. The start counting date is the next day, so the Next config time will add one day. Count rule : the next day + days + time period + MACaddress + random number = Next config time.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

6.2.3 Operate Instruction

Example 1: Configurate by HTTP

Step 1: Please complete MACID.dat first, and place it at the path of the designate Server.

Step 2: On [Auto Configuration Setting], set [Type: HTTP, HTTP Server: 192.168.50.2, HTTP Path: download/], (see Figure 1).

Type:	HTTP	▼
2 Steps Configuration:	Disable	▼
Server Auto Discover:	Disable	▼
Scheduling:	Disable	▼
HTTP Server:	192.168.50.2	Exp. 60.35.187.30
HTTP File Path:	download/	Exp. download/

(Figure 1)

Step 3: On [Service Domain Setting], check the information of [Realm No.: 1], these SIP columns will be infilled the information from [MACID.dat], (see Figure 2).



Realm No.:	1
Active:	Enable
Display Name:	2206
Phone Number:	2206
Authentication ID:	2206
Authentication Password:	●●●●●●●●●●
Domain Server:	61.62.236.71
Proxy Server:	61.62.236.71
Outbound Proxy:	
Subscribe for MWI:	Enable
Status:	Registered

(Figure 2)

Example 2: Configure by FTP

Step 1: Please complete MACID.dat first, and place it at the path of the designate Server.

Step 2: On [Auto Configuration Setting], set [Type: FTP, FTP Server 192.168.50.2, FTP User Name: test, FTP Password: test, File Path: download/], (see Figure 3).

Type:	FTP	
2 Steps Configuration:	Disable	
Server Auto Discover:	Disable	
Scheduling:	Disable	
FTP Server:	192.168.50.2	Exp. 60.35.17.1
FTP User Name:	test	
FTP Password:	●●●●	
FTP File Path:	download/	Exp. file/load/

(Figure 3)

Step 3: On [Service Domain Setting], check the information of [Realm No.: 1], these SIP columns will be infilled the information from [MACID.dat], (see Figure 4).



Realm No.: 1

Active:	Enable
Display Name:	2206
Phone Number:	2206
Authentication ID:	2206
Authentication Password:	●●●●●●●●●●
Domain Server:	61.62.236.71
Proxy Server:	61.62.236.71
Outbound Proxy:	
Subscribe for MWI:	Enable

Status: Registered

(Figure 4)

Example 3 : Set 2 Steps configuration (not encryption)

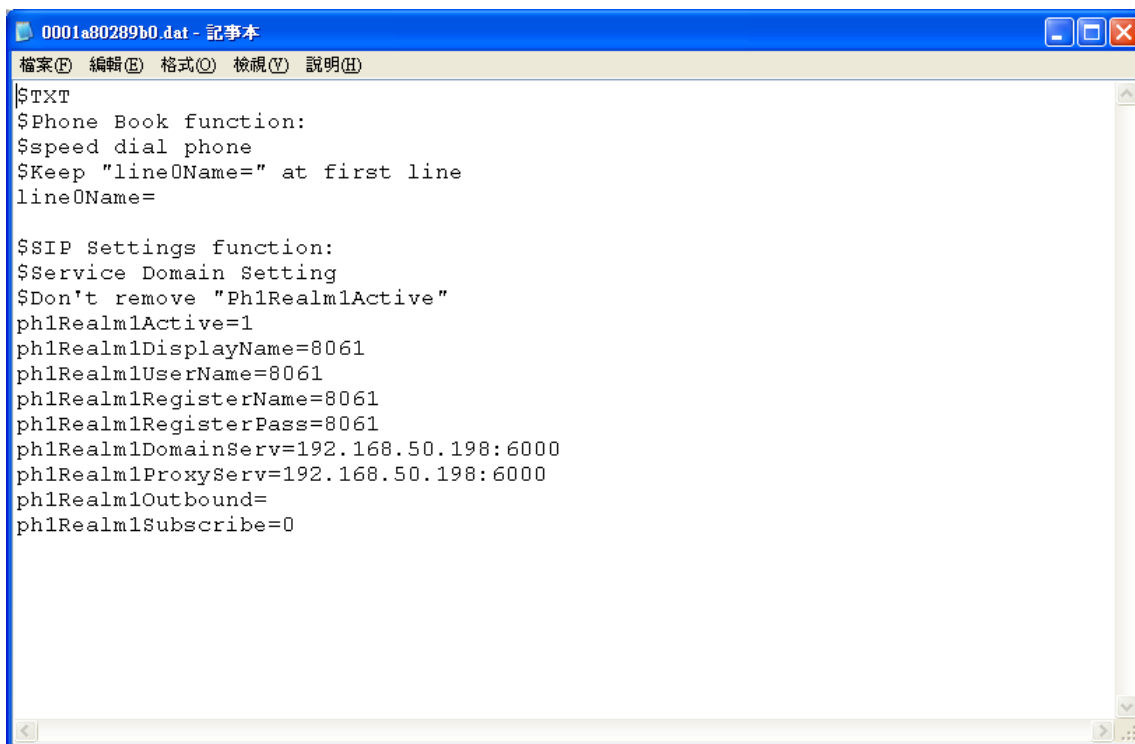
Step 1: Build a common MAC file with name [000000000000.dat], the file not contain [\$Service Domain Setting] data, (see Figure 5).

```
000000000000.dat - 記事本
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明(H)
$TXT
$Phone Book function:
$Speed dial phone
$Keep "line0Name=" at first line
line0Name=
|
$SNTP setting
SNTPEnable=1
SNTP1stServ=north-america.pool.ntp.org
SNTP2ndServ=asia.pool.ntp.org
SNTPTimeZone=+08:00
SNTPSyncTime=1:00:00

$DayLight
DayLightEnable=1
DSTOffset=-2
StartMonth=01
StartDayOfMonth=01
StartWeekOfMonth=1
StartWeeklyDay=0
StartTime=00
StopMonth=01
StopDayOfMonth=01
StopWeekOfMonth=1
StopWeeklyDay=0
```

(Figure 5)

Step 2: Set the [\$Service Domain Setting] data, and [line0Name=, ph1Realm1Active=1] cannot be deleted, (see Figure 6).



(Figure 6)

Step 3: On [Auto Configuration Setting], set [Type: TFTP, 2 Steps Configuration: Enable, TFTP Server: 192.168.50.4], (Figure 7)

Type:	TFTP
2 Steps Configuration:	Enable
Server Auto Discover:	Disable
Scheduling:	Disable
TFTP Server:	192.168.50.99
TFTP File Path:	

Exp. download

(Figure 7)

Step 4: On [Service Domain Setting], check the information of [Realm No.: 1], these SIP columns will be infilled the information from [MACID.dat], (see Figure 8).



Realm No.:	1
Active:	Enable
Display Name:	8061
Phone Number:	8061
Authentication ID:	8061
Authentication Password:	●●●●●●●●●●
Domain Server:	192.168.50.198:6000
Proxy Server:	192.168.50.198:6000
Outbound Proxy:	
Subscribe for MWI:	Disable
Status:	Registered

(Figure 8)

Example 4 : Server Auto Discover

◆ Broadcasting

Step 1: On [Auto Configuration Setting], set [Server Auto Discover: Broadcasting] (see Figure 9).

Type:	Disable
2 Steps Configuration:	Disable
Server Auto Discover:	Broadcasting
Scheduling:	Disable

(Figure 9)

Step 2: On [Auto Configuration Setting], set [Type: TFTP, TFTP Server: 192.168.55.91, TFTP File Path: config/], (see Figure 10).

Note : If you enable TFTP Server in the meantime, this information maybe place by TFTP Server's Provision information.

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	Broadcasting
Scheduling:	Disable
TFTP Server:	192.168.55.91
TFTP File Path:	config/

Exp. download

(Figure 10)

Step 3: On [Service Domain Setting], check the information of [Realm No.: 1], these SIP columes will be infilled the information from [MACID.dat], (see Figure 11).

Realm No.: 1

Active:	Enable
Display Name:	8061
Phone Number:	8061
Authentication ID:	8061
Authentication Password:	●●●●●●●●●●
Domain Server:	192.168.50.198:6000
Proxy Server:	192.168.50.198:6000
Outbound Proxy:	
Subscribe for MWI:	Disable

Status: Registered

(Figure 11)

◆ **DHCP TFTP Option 66 (TFTP)** (please refer to DHCP Turbo and TFTP Turbo)

Step 1: Please setup [DHCP Turbo + TFTPd32] softwares, and place MACID.dat in the designate folder.

Step 2: On [Auto Configuration Setting], set [Type: TFTP, Server Auto Discover: DHCP TFTP Option 66 (TFTP)], (see Figure 12)

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	DHCP Option 66 (TFTP)
Scheduling:	Disable

TFTP Server:	
TFTP File Path:	

Exp. download

(Figure 12)

Step 3: On [Auto Configuration Setting], check [TFTP Server], this column is infilled the TFTP IP address, (see Figure 13).

Note : If you enable TFTP Server in the meantime, this information maybe place by TFTP Server's Provision information.

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	DHCP Option 66 (TFTP)
Scheduling:	Disable

TFTP Server:	192.168.55.91
TFTP File Path:	

Exp. download

(Figure 13)

Step 4: On [Service Domain Setting], check the information of [Realm No.: 1], these SIP columns will be infilled the information from [MACID.dat], (see Figure 14).

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Realm No.: 1

Active:	Enable
Display Name:	8061
Phone Number:	8061
Authentication ID:	8061
Authentication Password:	●●●●●●●●●●
Domain Server:	192.168.50.198:6000
Proxy Server:	192.168.50.198:6000
Outbound Proxy:	
Subscribe for MWI:	Disable

Status: Registered

(Figure 14)

◆ DHCP TFTP Option 66 (TFTP)-2 (Please refer to DHCP Turbo)

Step 1: Please setup [DHCP Turbo + TFTPd32] softwares, and place MACID.dat in the designate folder.

Step 2: On [Auto Configuration Setting], set [Type: TFTP, Server Auto Discover: DHCP TFTP Option 66 (TFTP)], (see Figure 15)

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	DHCP Option 66 (TFTP)
Scheduling:	Disable

TFTP Server:	
TFTP File Path:	

Exp. download

(Figure 15)

Step 3: On [Auto Configuration Setting], check [TFTP Server], this column is infilled the TFTP IP address, (see Figure 16).

Note : If you enable TFTP Server in the meantime, this information maybe place by TFTP Server's Provision information.

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	DHCP Option 66 (TFTP)
Scheduling:	Disable

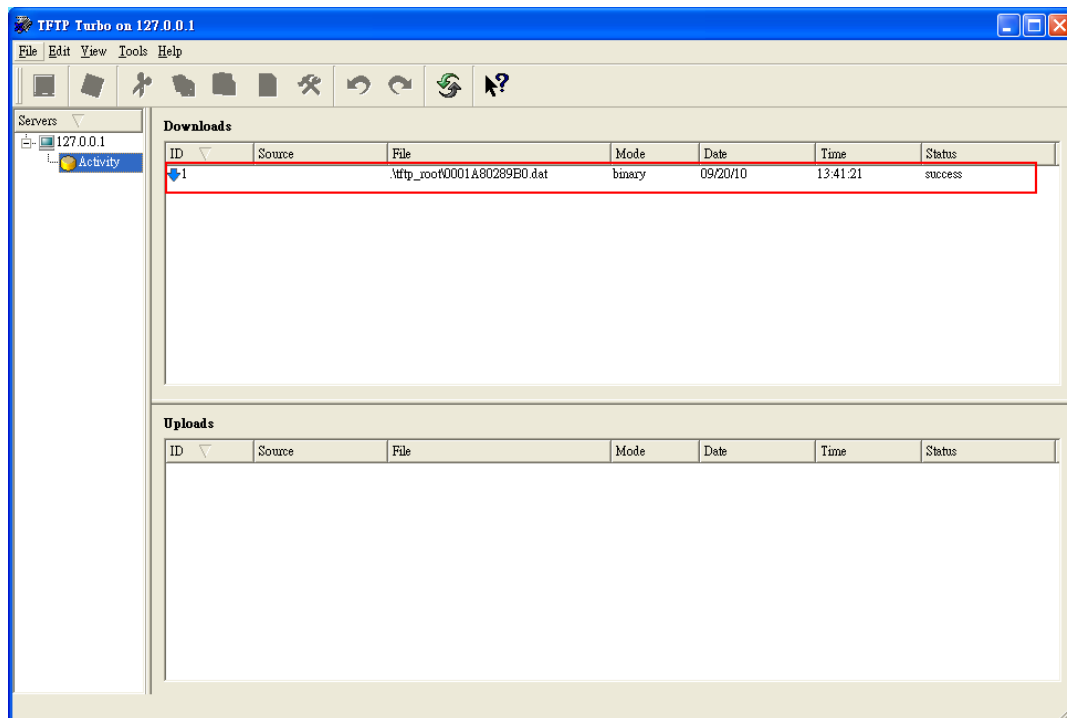
TFTP Server:	192.168.55.91
TFTP File Path:	

Exp. download

(Figure 16)

Setp 4: On [TFTP Turbo Server], check [Downlaods] status, and you will see a device to download the [MACID.dat] file, (see Figure 17).

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(Figure 17)

Example 3 : Auto-Provision by Scheduling

Step 1: On [Auto Update Setting], set [Scheduling (Date): 14, Scheduling (Time): AM 00:00 - 5:59], (see Figure 18).

Check New Firmware Type:	Scheduling only
Scheduling (Date):	14 (1~30 days)
Scheduling (Time):	AM 00:00- 05:59
Automatic Update:	Automatic

(Figure 18)

Step 2: On [Auto Configuration Setting], set [Type: TFTP, Scheduling: Enable, TFTP Server: 192.168.50.91], (see Figure 19).

Type:	TFTP
2 Steps Configuration:	Disable
Server Auto Discover:	Disable
Scheduling:	Enable
TFTP Server:	192.168.50.91
TFTP File Path:	Exp. download/

(Figure 19)

Step 3: Back to [Auto Configuration Setting], at [Next Configuration Time] shows the next time of Auto Configuration, (see Figure 20).

Next Configuration time: 2010-08-30 03:07

(Figure 20)

Note: Please refer to Chapter 2 to know how to build a MAC File.

6.3 Auto Update

6.3.1 Functions

Provides the types of HTTP, FTP, HTTP to update the firmware in **ssh** type.

6.3.2 Instruction

Auto Update Setting

Type:	<div>Disable</div>	
TFTP Server:	<div></div>	
TFTP File Path:	<div></div>	Exp. download/
HTTP Server:	<div></div>	
HTTP File Path:	<div></div>	Exp. download/
FTP Server:	<div></div>	
FTP User Name:	<div></div>	
FTP Password:	<div></div>	
FTP File Path:	<div></div>	Exp. file/load/
Check New Firmware Type:	<div>Power ON and Scheduling</div>	
Scheduling (Date):	<div>14</div> (1~30 days)	
Scheduling (Time):	<div>AM 00:00- 05:59</div>	
Automatic Update:	<div>Notify only</div>	
Firmware File Prefix:	<div>PHONE</div>	
Next Update time:		
<div>Submit</div> <div>Reset</div>		

Colume	Instruction
Type	Default: Disable. When this function is on, system will update the firmware from the designate Server. Provides options: Disable, TFTP, FTP and HTTP.
TFTP Server	This colume can only input IP with the format of xxx.xxx.xxx.xxx; maximum length is 15 bytes.
TFTP Path	This colume can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.
HTTP Server	This colume can input IP or Domain Name; maximum length is 63 bytes.
HTTP Path	This colume can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.
FTP Server	This colume can input IP or Domain Name; maximum length is 63 bytes.
FTP Username	This colume can input IP or Domain Name; maximum length is 63 bytes.
FTP Password	This colume can input IP or Domain Name; maximum length is 63 bytes.
FTP File Path	This colume can input numbers or strings; maximum length is 63 bytes with the "/" in the end, ex: 123/.

Check new Firmware Type	Default: Scheduling Only. Set the type for checking new firmware. - Power on and Scheduling: Check the new firmware when powers on and bases on Scheduling - Scheduling: According to [Next Update Time] to check the new firmware. Provides options: Power on and Schedule, Scheduling Only. * Power on and Scheduling: When system discovers a new firmware, it will not do the updating work, but you will hear hint tone or see a [Found new s/w] message on LCD. You should update firmware by yourself.
Scheduling (Date)	Default: 14 (day). This colum can only input numbers; maximum length is 2 bytes with a range of 1~30.
Scheduling (Time)	Default: AM 00:00 – 05:59. Provides options: AM 00:00 – 05:59, AM 06:00 – 11:59, AM 12:00 – 17:59, AM 18:00 – 23:59.
Automatic Update	Default: Notify only. Set the type to update firmware. Provides option: Notify only, Automatic. - Notify only: When system discover a new firmware, it will not do the updating work, but you will hear hint tone for TA or see a [Found new s/w] message on LCD for Phone. - Automatic: Update firmware automatically.
Firmware File Prefix	Default is production model. This is used to judge what model asks to update. This colum can input numbers or strings; maximum length is 8 bytes.
Next Update Time	System will check the Update Server when the Next Update time is up. The start counting date is the next day, so the Next Update time will add one day. Count rule : the next day + days + time period + MACaddress + random number = Next Update time.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

Update by youself:

Step 1: Display **[Found new s/w]** message on LCD.

Step 2: Press the **[Menu]** button and enter menu, select **[7. Administrator→ 2. Upgrade System→1.**

Upgrade Now→ 1. Yes], then system will update firmware compulsively.

Note : It will spend 2~3 minutes when system is updating firmware, please do not take off power adapter during updating firmware and you can not use it to call the other side.

6.3.3 Operate Instruction

Example 1: Build a Auto Update file [***_ver.dat]

Step 1: The filename for checking firmware version, the filename is according to [Firmware File Prefix] on [Auto Update Setting] and adds [_ver.dat] to be [filename_ver.dat], (see Figure 1).

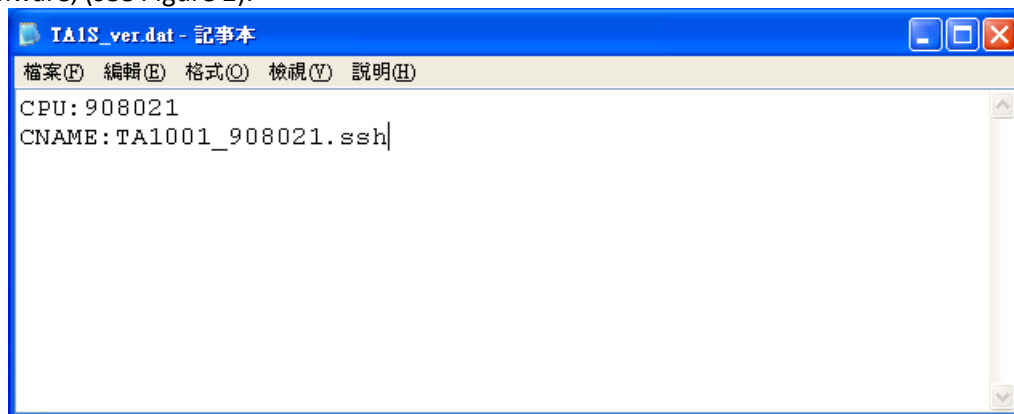
Ex : Firmware File Prefix: TA1S, the filename for checking firmware version is TA1S_ver.dat.

Please attention to [Firmware File Prefix], the name must be the same as *_ver.dat.**

Check New Firmware Type:	Power ON and Scheduling ▼
Scheduling (Date):	5 (1~30 days)
Scheduling (Time):	PM 12:00- 17:59 ▼
Automatic Update:	Notify only ▼
Firmware File Prefix:	TA1S

(Figure 1)

Step 2: After build a [TA1S_ver.dat] file, there must be have [CPU, CNAME] two datas to compare with updating file in Server, if the Server one is newer than your system, then your system will update firmware, (see Figure 2).



(Figure 2)

Note:

CPU: The date of updating file, it can only input numbers.

CNAME: The updating file name, please input a complete name without space or signs.

Step 3: Please place ***_ver.dat and *.ssh files in the designate folder of the Server.

Example 2: Check New Firmware Type: Scheduling only

Step 1: On [Auto Update Setting], set [Type: HTTP, HTTP Server: 192.168.50.2, HTTP File Path: HFS, Check New Firmware Type: Scheduling only, Scheduling (Date): 14, Scheduling (Time): AM 00:00-05:59, Automatic Update: Automatic, Firmware File Prefix: PHONE], (see Figure 3).

Type:	HTTP ▼	
HTTP Server:	192.168.50.2	Exp. 60.35.187.30
HTTP File Path:	HFS/	Exp. download/
Check New Firmware Type:	Scheduling only ▼	
Scheduling (Date):	14 (1~30 days)	
Scheduling (Time):	AM 00:00- 05:59 ▼	
Automatic Update:	Notify only ▼	
Firmware File Prefix:	PHONE	

(Figure 3)

Step 2: On [Auto Update Setting], please check [Next Update time], (see Figure 4).

Next Update time: 2010-08-30 03:07

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(Figure 4) °

Step 3: When [Next Update Time] is up, system will connect to HTTP Server to check the firmware version.

Step 4: When system downloads [***_ver.dat] file completely, system will compare the [CPU] information with current version, if the current version is old, there will display a [Found New S/W] message on LCD for Phone, send out a hint tone from handset for TA.

Example 2: Check New Firmware Type: Power on and Scheduling

Step 1: Please build the file of checking firmware version [_ver.dat] file and place it in the folder of designate Server with new *.ssh file.

Step 2: On [Auto Update Setting], set [Type: FTP, FTP Server: 192.168.50.2, FTP User Name: test, FTP Password: test, Check New Firmware Type: Power on and Scheduling, Scheduling (Date): 14 , Scheduling (Time): AM 00:00-05:59, Automatic Update: Automatic, Firmware File Prefix: PHONEO], (see Figure 5).

Type:	FTP ▾	
FTP Server:	192.168.50.2	Exp. 60.35.17.1
FTP User Name:	test	
FTP Password:	●●●●	
FTP File Path:		Exp. file/load
Check New Firmware Type:	Power ON and Scheduling ▾	
Scheduling (Date):	14	(1~30 days)
Scheduling (Time):	AM 00:00- 05:59 ▾	
Automatic Update:	Automatic ▾	
Firmware File Prefix:	PHONEO	

(Figure 5)

Step 3: On [Auto Update Setting], check the next updating time of [Next Update time], (see Figure 6).

Next Update time:	2010-08-30 03:07
-------------------	------------------

(Figure 6)

Step 4: When system downloads [***_ver.dat] file completely, system will compare the [CPU] information with current version, if the current version is old, there will display a [Found New S/W] message on LCD for Phone, send out a hint tone from handset for TA.

Step 5: System will update firmware automatically.

6.4 New Firmware

6.4.1 Functions

Provides type ssh to update.

6.4.2 Instruction

Update Firmware

Code Type:	CPU+DSP xxxx.ssh ▾
File Location:	<input type="text"/> 浏览...
<input type="button" value="Update"/> <input type="button" value="Reset"/>	

Colume	Instruction
Code Type	Default: CPU+DSP xxxx.ssh.
File Location	The location of the updating file.
Update [button]	Execute updating firmware.
Reset [button]	Reset all datas.

Note : It will spend 2~3 minutes when system is updating firmware, please do not take off power adapter during updating firmware and you can not use it to call the other side.

6.4.3 Operate Instruction

Step 1: On [Update Firmware], please press [select] to choice the location of the updating file, (see Figure 1).

Update Firmware

Code Type:	CPU+DSP xxxx.ssh ▾
File Location:	<input type="text"/> 浏览...
<input type="button" value="Update"/> <input type="button" value="Reset"/>	

(Figure 1)

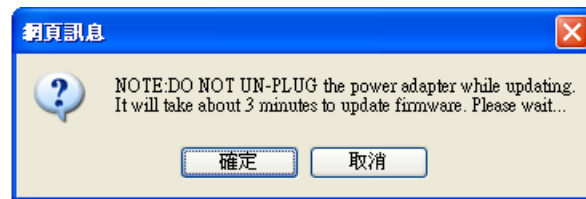
Step 2: Enter the page of [select file], sleect the updating file (ex: voip.ssh), press [open] button and will back to [Update Firmware], then press [Update] button, (see Figure 2).

Type:	CPU+DSP xxxx.ssh ▾
File Location:	C:\Open\voip.roh 浏览...

(Figure 2)

Step 3: There will show a [Note], it tells you some messages that you should not do them during the updating firmware], when you are sure of these notes very clear, please press [OK] button to close the [Note], then the system will start to update firmware, (see Figure 3).

ADD: 2-2308,Yixin Building,NO.11 Huabianling South Road,Huizhou,Guangdong,China



(Figure 3)

Step 4: There will show a page of [Note Information], it tells you the system is updating and it will reboot automatically as updating complete, (see Figure 4).

Note Information

Please wait while updating System will reboot automatically after finished.

(Figure 4)

6.5 Advanced

6.5.1 Functions

Provides functions to set Send Anonymous CID, Send Flash Event, Encryption, Syslog.

6.5.2 Instruction

Management - Advanced Setting

ICMP Not Echo:	Disable
Auto Answer Call:	Disable
Send Anonymous CID:	Disable
Management from WAN:	Enable
Stop Feature Tone:	Disable (MMI, forward, block....)
IP Dialing Format:	Type 1 (x@x.x.x.x)
Send Flash Event:	Disable
Encryption Type:	Disable
Encryption Key:	
PPPoE Retry Period:	5 Seconds (0~250)
System Log Server:	
System Log Type:	Disable
NET Bandwidth Limit:	Disable Kbps

(Figure 1)

Colume	Instruction
ICMP Not Echo	Default: Disable. When this function is set "Enable", system will not response the message of ping. Provides options: Disable, Enable.
Send Anonymous CID	Default: Disable. When this function is set Type 1/Type 2, system will use the anonymous Caller ID. Provides options: Disable, Type 1 (anonymous@anonymous.invalid), Type 2 (anonymous@x.x.x.x) . *This function must be supported by Server.
Management form WAN	Default: Enable. Allow users login system from WAN Port. When this function is set Disable, users can only login system from LAN Port. Provides options: Disable, Enable.
IP Dialing Format	Default: Type 1 (x@x.x.x.x). When this function is set Disable, system can not dial IP. Provides options: Disabled, Type 1 (x@x.x.x.x), Type 2 (x.x.x.x).
Send Flash event	Default: Disable. Send the type of callwaiting. When a user presses [Hook/Flash (Transfer)] on Phone, system will send out event messages depending on the type of user select to the other side. Provides options: Disable, DTMF Event, SIP Info.

	Disable: Send out [SIP/DSP, Content-Type=applicatio-sdp]. DTMF Event: Send out [RTP event, Payload type=RTP event Flash]. SIP Info: Send out [SIP, Request: INFO sip:xxx@xxxx].
Encrypt Type	Default: Disable. Set SIP encryption type. When this function is on, system will send out encryption information according to encryption type. Provides options: Disable, INFINET, AVS, WALKERSUN1, WALKERSUN2, CSF1, CSF2, GX, VGX, RC4, VOS_R, VGCP. *This function must be supported by Server.
Encrypt Key	Set encryption key. Some encryption type will ask you to input the keys to encrypt the information. This colum can input numbers or strings; maximum length is 63 bytes. *This function must be supported by Server.
PPPoE Retry Period	Default: 5. When system is fail to connect PPPoE, system will wait the seconds you set past and try to connect PPPoE again. This colum can only input numbers;maximum length is 3 bytes with a range of 5~255(sec).
System Log Server	Set Syslog address. The Syslog Server will receive Debug Log from system. This colum can input numbers or strings with the type of xxx.xxx.xxx.xxx; maximum length is 63 bytes.
System Log Type	Default: Disable. Provides options: Disable, Call Statistics, General Debug, Call Statistics, General Debug, SIP Debug, Call Statistics + SIP Debug, General Debug + SIP Debug, All.
NET Bandwidth Limit	Default: Disable. Set the transmission limit through LAN Port. When this function is on, system will limit the transmission through LAN Port according to the option. Provides options: Disable, 128, 256, 512, 1024, 2048, 4096, 8192(Kbps).
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

6.5.3 Operate Instruction

Example 1: Send Anonmyouse CID

◆ Type 1 (anonymous@x.x.x.x)

Step 1: On [Advanced Setting], set [Send Anonymous CID: Type 1 ([anonymous@x.x.x.x](#))], (see Figure 1).

ICMP Not Echo:	Disable
Send Anonymous CID:	Disable
Management from WAN:	Disable
IP Dialing Format:	Type 1 (anonymous xx@x.x.x.x)
Send Flash Event:	Type 2 (anonymous@anonymous.invalid)
	Disable

(Figure 1)

Step 2: Make a call to the other side.

◆ Type 2 ([anonymous@anonymous.invalid](#))

Step 1: On [Advanced Setting], set [Send Anonymous CID: Type 2 ([anonymous@anonymous.invalid](#))], (see Figure 2).

ICMP Not Echo:	Disable
Send Anonymous CID:	Disable
Management from WAN:	Disable
IP Dialing Format:	Type 1 (anonymous xx@x.x.x.x) Type 2 (anonymous@anonymous.invalid)
Send Flash Event:	Disable

(Figure 2)

Step 2: Make a call to the other side.

Example 3: IP Dialing Format

◆ Type 1 (x@x.x.x.x)

Step 1: On [Advanced Setting], set [IP Dialing Format: Type 1 (x@x.x.x.x)], (see Figure 3).

Stop Feature Tone:	Enable
IP Dialing Format:	Type 2 (x.x.x.x.x)
Send Flash Event:	Disabled
Encryption Type:	Type 1 (x@x.x.x.x.x) Type 2 (x.x.x.x.x)
Encryption Key:	

(Figure 3)

Step 2: Make a call to the other side.

◆ Type 2 (x.x.x.x.x)

Step 1: On [Advanced Setting], set [IP Dialing Format: Type 2 (x.x.x.x.x)], (see Figure 4).

Stop Feature Tone:	Enable
IP Dialing Format:	Type 2 (x.x.x.x.x)
Send Flash Event:	Disabled
Encryption Type:	Type 1 (x@x.x.x.x.x) Type 2 (x.x.x.x.x)
Encryption Key:	

(Figure 4)

Step 2: Make a call to the other side.

Example 3: Send Falsh Event

◆ Send Falsh Event: Disable

Step 1: On [Advanced Setting], set [Send Flash event: Disable], (see Figure 5).

Send Flash Event:	Disable
Encryption Type:	DTMF EVENT SIP INFO
Encryption Key:	

(Figure 5)

Step 2: Make a call to the other side, press the key [Hook Flash/Transfer] after the other side answers the call.

◆ Send Falsh Event: DTMF Event

Step 1: On [Advanced Setting], set [Send Flash event: DTMF Event], (see Figure 7).

Send Flash Event:	Disable	▼
Encryption Type:	Disable	▼
Encryption Key:	DTMF EVENT	
	SIP INFO	

(Figure 7)

Step 2: Make a call to the other side, press the key [Hook Flash/Transfer] after the other side answers the call.

◆ Send Falsh Event: SIP Info

Step 1: On [Advanced Setting], set [Send Flash event: SIP Info], (see Figure 8).

Send Flash Event:	Disable	▼
Encryption Type:	Disable	▼
Encryption Key:	DTMF EVENT	
	SIP INFO	

(Figure 8)

Step 2: Make a call to the other side, press the key [Hook Flash/Transfer] after the other side answers the cal.

Example 4: PPPoE retry period

Step 1: On [Advanced Setting], set [PPPoE Retry Period: 20], (see Figure 9).

PPPoE Retry Period:	20	Seconds (0~250)
System Log Server:		
System Log Type:	Disable	▼

(Figure 9)

Step 2: When system is fail to connect PPPoE.

Example 5: System Log (Please turn on TFTP or System Log Server at the first)

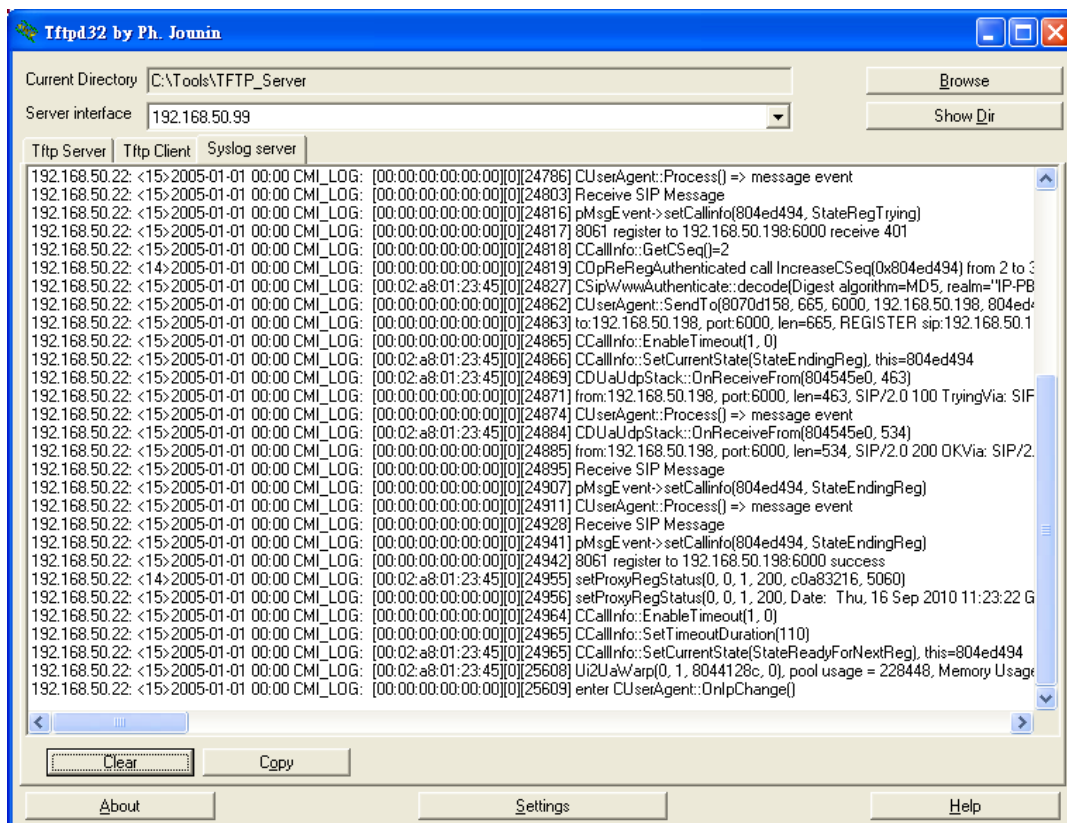
◆ System Log Type: All

Step 1: On [Advanced Setting], set [System Log Server: 192.168.1.6, System Log Type: All], (see Figure 10).

System Log Server:		
System Log Type:	Disable	▼
FXO Port Country:	Disable	▼
FXO Silence Timeout:	Call Statistics	
FXO CID forward:	General Debug	
Generate Flash Signal for FXO:	Call Statistics+General Debug	
NET Bandwidth Limit:	SIP Debug	
	Call Statistics+SIP Debug	
	General Debug+SIP Debug	
	All	

(Figure 10)

Step 2: The page [Syslog server] on [TFTP] will receive information as your device is on, it will send out a lot of information to Syslog Server to let you know what behavior is happening now of the device, (see Figure 11).



(Figure 11)

6.6 Password

6.6.1 Functions

Password provides 3 Authority functions to change their User name and Password, respectively.

6.6.2 Instruction

Figure 1: Authority Admin

Password Setting

Admin	
New User Name:	<input type="text"/>
New Password:	<input type="password"/>
Confirmed Password:	<input type="password"/>

System	
New User Name:	<input type="text"/>
New Password:	<input type="password"/>
Confirmed Password:	<input type="password"/>

User	
New User Name:	<input type="text"/>
New Password:	<input type="password"/>
Confirmed password:	<input type="password"/>

(Figure 1)

Colume	Instruction
Admin	Administrator (the highest authority): it can only set an Administrator account. The authority can set all the pages including [Phone: Phone Book, Speed Dial, Dial Plan, Call Service, Genereal; Network: WAN, DDNS, VLAN, VPN, SNTP; NAT: LAN, DMZ, Virtual Server; SIP: Service, Code, Advanced, Stun; Management: Status Log, Auto Config, Auto Update, New Firmware, Advanced, Passowrd, Tones, Default; Save & Reboot, Help, Logout]. Default Username: root, default password: test.
New username	This colume can input numbers or strings; maximum length is 32 bytes.
New password	This colume can input numbers or strings; maximum length is 32 bytes.
Confirmed password	This colume can input numbers or strings; maximum length is 32 bytes.
System	System (the middle authority): it can only set a System account. The authority can set parts of the page including [Phone: Phone Book, Speed Dial, Dial Plan, Call Service, Genereal; Network: WAN, DDNS, VLAN, VPN, SNTP; NAT: LAN, DMZ, Virtual Server; SIP: Service, Code, Stun; Management: Status Log, Auto Config, Auto Update, New Firmware, Passowrd, Default; Save uration, Help, Logout] 。 Default Username: system, default password: test.
New username	This colume can input numbers or strings; maximum length is 32 bytes.

New password	This column can input numbers or strings; maximum length is 32 bytes.
Confirmed password	This column can input numbers or strings; maximum length is 32 bytes.
User	Normal User (the lowest authority): it can only set a Normal User account. The authority can set parts of the page including [Phone: Phone Book, Call Service, Genereal; Network: WAN, DDNS, NAT: LAN, DMZ, Virtual Server; Management: Status Log, Save uration, Help, Logout] ° Default Username: user, default password: test.
New username	This column can input numbers or strings; maximum length is 32 bytes.
New password	This column can input numbers or strings; maximum length is 32 bytes.
Confirmed password	This column can input numbers or strings; maximum length is 32 bytes.
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

Figure 2: Authority System

Password Setting

System

New User Name:
New Password:
Confirmed Password:

User

New User Name:
New Password:
Confirmed password:

(Figure 2)

Colume	Instruction
System	System (the middle authority): it can only set a System account. The authority can set parts of the page including [Phone: Phone Book, Speed Dial, Dial Plan, Call Service, Genereal; Network: WAN, DDNS, VLAN, VPN, SNTP; NAT: LAN, DMZ, Virtual Server; SIP: Service, Code, Stun; Management: Status Log, Auto Config, Auto Update, New Firmware, Passowrd, Default; Save uration, Help, Logout] ° Default Username: system, default password: test.
New username	This column can input numbers or strings; maximum length is 32 bytes.
New password	This column can input numbers or strings; maximum length is 32 bytes.
Confirmed password	This column can input numbers or strings; maximum length is 32 bytes.
User	Normal User (the lowest authority): it can only set a Normal User account. The authority can set parts of the page including [Phone: Phone Book, Call Service, Genereal; Network: WAN, DDNS, NAT: LAN, DMZ, Virtual Server; Management: Status Log, Save uration, Help, Logout] ° Default Username: user, default password: test.
New username	This column can input numbers or strings; maximum length is 32 bytes.
New password	This column can input numbers or strings; maximum length is 32 bytes.
Confirmed password	This column can input numbers or strings; maximum length is 32 bytes.

Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

6.7 Tones

6.7.1 Functions

Tones provides functions to set Dial, Ring Back, Busy, Congestion, Ring, Call Waiting Tone, Tone uses Dual Tone, Multi-Frequency.

6.7.2 Instruction

Tones Setting

	Dial	Ring Back	Busy	Congestion	Ring	Call Waiting
Cadence On:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hi-Tone Freq.:	<input type="text" value="440"/>	<input type="text" value="480"/>	<input type="text" value="620"/>	<input type="text" value="620"/>	<input type="text" value="480"/>	<input type="text" value="440"/>
Lo-Tone Freq.:	<input type="text" value="350"/>	<input type="text" value="440"/>	<input type="text" value="480"/>	<input type="text" value="480"/>	<input type="text" value="440"/>	<input type="text" value="350"/>
Hi-Tone Gain:	<input type="text" value="4522"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="15360"/>	<input type="text" value="2261"/>
Lo-Tone Gain:	<input type="text" value="4522"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="15360"/>	<input type="text" value="1130"/>
On Time 1:	<input type="text" value="0"/> x10ms	<input type="text" value="200"/>	<input type="text" value="50"/>	<input type="text" value="30"/>	<input type="text" value="200"/>	<input type="text" value="30"/>
Off Time 1:	<input type="text" value="0"/> x10ms	<input type="text" value="400"/>	<input type="text" value="50"/>	<input type="text" value="20"/>	<input type="text" value="400"/>	<input type="text" value="20"/>
On Time 2:	<input type="text" value="0"/> x10ms	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="30"/>
Off Time 2:	<input type="text" value="0"/> x10ms	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="400"/>
On Time 3:	<input type="text" value="0"/> x10ms	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Off Time 3:	<input type="text" value="0"/> x10ms	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Tone Gain Value: 372767-> 0dB, 16384-> -6dB, 8192-> -12dB

Colume	Instruction
Dial Tone	Set the Dial Tone settings
Candence On	Default: Disable. When check the box, Candence On will Enable.
Hi-Tone Freq	Default: 440. This colume can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 350. This colume can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 4522. This colume can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 2261. This colume can only input numbers; maximum length is 5 bytes with a range of 0~65535. °
On Time 1	Default: 0. Set the first category of time start. This colume can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 1	Default: 0.

	Set the first category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).
On Time 2	Default: 0. Set the second category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 2	Default: 0. Set the second category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).
On Time 3	Default: 0. Set the third category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).
Ring Back	Set the Ring Back Tone settings
Candence On	Default: Enable. When check the box, Candence On will Enable.
Hi-Tone Freq	Default: 480. This colum can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 440. This colum can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 2261. This colum can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 2261. This colum can only input numbers; maximum length is 5 bytes with a range of 0~65535. °
On Time 1	Default: 200. Set the first category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 1	Default: 400. Set the first category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).
On Time 2	Default: 0. Set the second category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 2	Default: 0. Set the second category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).

On Time 3	Default: 0. Set the third category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~999 (10ms).
Busy	Set the Busy Tone settings
Candence On	Default: Enable. When check the box, Candence On will Enable.
Hi-Tone Freq	Default: 620. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 480. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 2261. This column can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 2261. This column can only input numbers; maximum length is 5 bytes with a range of 0~65535. °
On Time 1	Default: 50. Set the first category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 1	Default: 50. Set the first category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 2	Default: 0. Set the second category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 2	Default: 0. Set the second category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 3	Default: 0. Set the third category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
Congestion	Set the Congestion Tone settings
Candence On	Default: Enable. When check the box, Candence On will Enable.

Hi-Tone Freq	Default: 620. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 480. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 2261. This column can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 2261. This column can only input numbers; maximum length is 5 bytes with a range of 0~65535. °
On Time 1	Default: 30. Set the first category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 1	Default: 20. Set the first category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 2	Default: 0. Set the second category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 2	Default: 0. Set the second category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 3	Default: 0. Set the third category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
Ring	Set the Ring Tone settings
Candence On	Default: Enable. When check the box, Candence On will Enable.
Hi-Tone Freq	Default: 480. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 440. This column can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 15360. This column can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 15360. This column can only input numbers; maximum length is 5 bytes with a range

	of 0~65535. °
On Time 1	Default: 200. Set the first category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 1	Default: 400. Set the first category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 2	Default: 0. Set the second category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 2	Default: 0. Set the second category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 3	Default: 0. Set the third category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
Call Waiting	Set the Call Waiting Tone settings °
Candence On	Default: Enable. When check the box, Candence On will Enable.
Hi-Tone Freq	Default: 440. This colum can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Lo-Tone Freq	Default: 350. This colum can only input numbers; maximum length is 4 bytes with a range of 0~4096.
Hi-Tone Gain	Default: 2261. This colum can only input numbers; maximum length is 5 bytes with a range of 0~65535.
Lo-Tone Gain	Default: 1130. This colum can only input numbers; maximum length is 5 bytes with a range of 0~65535. °
On Time 1	Default: 30. Set the first category of time start. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 1	Default: 20. Set the first category of time end. This colum can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 2	Default: 30. Set the second category of time start.

	This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 2	Default: 400. Set the second category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
On Time 3	Default: 0. Set the third category of time start. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms). °
Off Time 3	Default: 0. Set the third category of time end. This column can only input numbers; maximum length is 3 bytes with a range of 0~ 999 (10ms).
Submit [Botton]	Save the settings.
Reset [Button]	Reset all datas.

6.8 Default

6.8.1 Functions

Default provides the way of eliminating all settings and reloading default settings but the datas of Phone Book & Speed Dial.

6.8.2 Operate Instruction

Restore Default Setting

Restore default setting:

(Figure 1)

Colume	Instruction
Restore [button]	Eliminate all settings and reload default setting; system will restart after the Restore default setting is complete.

7. Save & Reboot

Save & Reboot provides functions to save all settings and restart the system.

7.1 Functions

Save Change: Save all settings and restart the system.

Reboot System: Restart the system.

7.1.1 Operate Instruction

Save and Reboot

Save Change:

Reboot System:

(Figure 1)

Colume	Instruction
Save [button]	Save all settings and restart the system.
Reboot [button]	Restart the system.

8. Logout

8.1 Functions

Logout provides the way of exiting the system and back to entrance page.

8.1.1 Instruction

Logout

Are you sure to logout ?

(Figure 1)

Colume	Instruction
Logout [button]	Exit the system and back to entrance page.

Part IV:

Operate Instruction

Operate Instruction of the Phone

Phone Transfer Rule

1.1 IP mode Transfer Rule

1.1.1 Blind Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Hold] to hold B's call, and then press [Transfer/Flash], input C's number, and end with "#", then the call transferred to C.

1.1.2 Attendant Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Transfer/Flash], and input C's number, end with "#", then C's phone rings. If A hang up the phone, then B can talk with C.

Gateway/TA Transfer Rule

1.2 IP mode Transfer Rule

1.2.1 Blind Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Hold] to hold B's call, then press #510# and C's number, end with "#" to transfer the call to C.

1.2.2 Attendant Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Hold] to hold B's call, then press #511# and input C's number, end with "#", then C's phone rings. If A hung up the phone, then B can talk with C.

1.2.3 (3-way calling)

B calls A, while A and B are talking, if A would like to add C to talk, A should hold B's call, then press #512# and C's number, end with "#", then C's phone rings. If A can talk with C, and A press "flash", A, B and C can talk together.

1.2.4 Call Waiting

While A & B are talking, C calls A, A can hear the inset tone; A could press [Hold] to hold B, and talking with C.